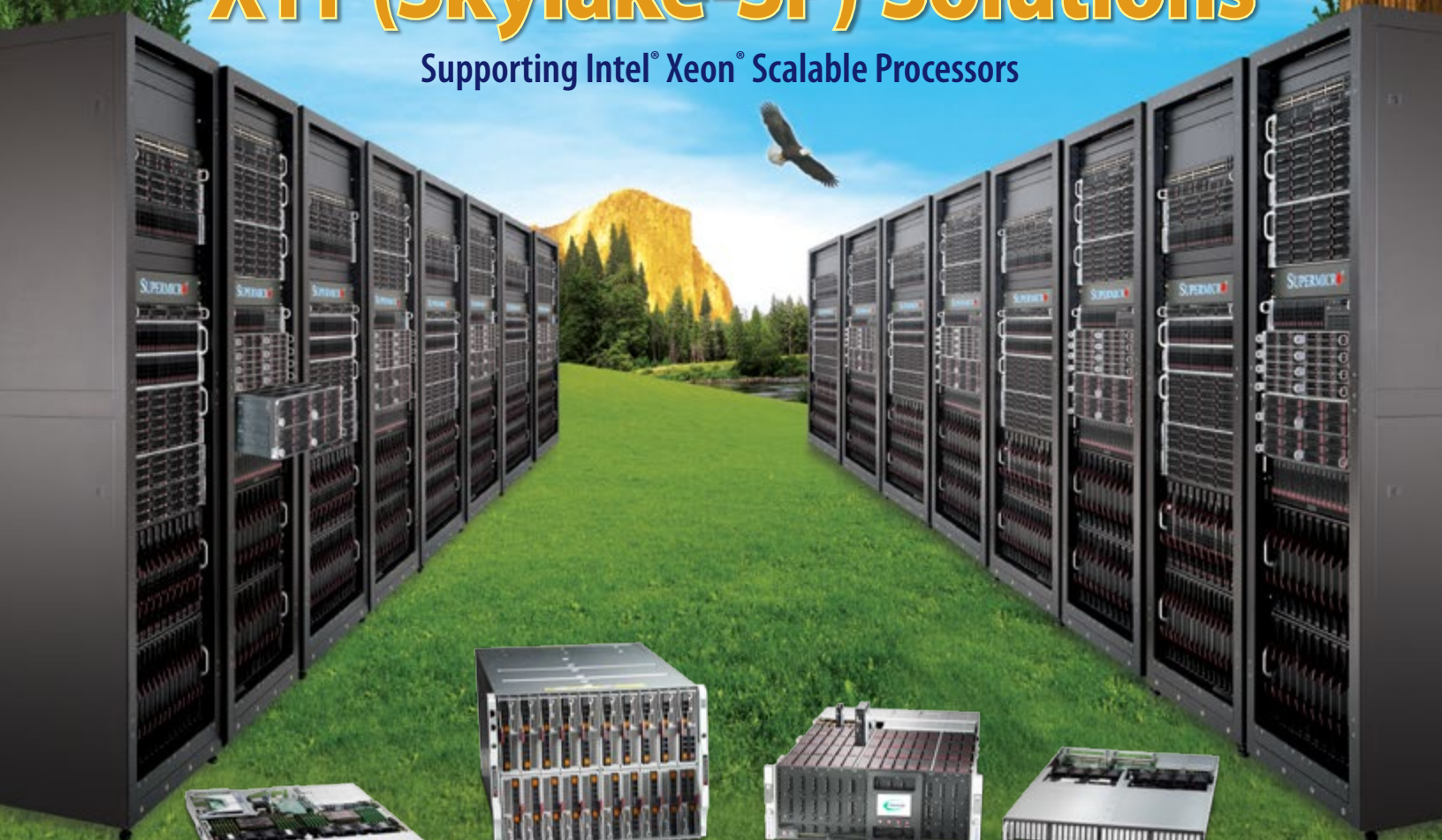




# X11 (Skylake-SP) Solutions

Supporting Intel® Xeon® Scalable Processors



**Deep Learning**



**Cloud Computing**



**Big Data Analytics**



**Social Networking**





## 1U X11 Ultra

Low Latency



## 1U X11 Ultra

10x 2.5" NVMe Drive Bays



MODEL	SYS-1029UX-LL1-S16 SYS-1029UX-LL2-S16	SYS-1029U-TN10RT
<b>Processor Support</b>	<p><b>-LL1-S16:</b> Intel® Xeon® Processor Scalable Family 6144(Included) with Dual UPI up to 10.4GT/s</p> <p><b>-LL2-S16:</b> Intel® Xeon® Processor Scalable Family 6146(Included) with Dual UPI up to 10.4GT/s</p>	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Financial Analysis</li> <li>Business Critical Applications</li> <li>Enterprise Server</li> </ul>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>Hyper-Speed Hardware Acceleration</li> <li>Low Latency &amp; Jitter Optimized</li> <li>8x 2.5" SAS &amp; 2x SATA3 2.5" HDD Bay</li> <li>2x 2.5" NVMe drive bay support</li> <li>Optimized cooling</li> <li>Platinum level redundant power supply</li> </ul>	<ul style="list-style-type: none"> <li>10 NVMe SSDs Support</li> <li>24 DIMM sockets</li> <li>2 PCI-E 3.0 (x16)</li> <li>Dual 10G BaseT</li> <li>1000W Titanium Level Power Supply</li> <li>2 SATA DOMs Support with Embedded Power</li> </ul>
<b>Serverboard</b>	SUPER® X11DPU-XLL	SUPER® X11DPU
<b>Chipset</b>	Intel C621 Chipset	Intel® C621 Chipset
<b>System Memory (Max.)*</b>	Default: 12x 16GB 2666MHz DDR4 (Included) (16 DIMM slots, up to 2TB DDR4 2666MHz)	Up to 3TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots
<b>Expansion Slots</b>	2 PCI-E 3.0 x16(1x Full Height, 10.5" Length; 1x Full Height, 10" Length) 1 PCI-E 3.0 x8 (Low Profile) 1 PCI-E 3.0 x8 (Internal SAS3 integrated 3108)	2 PCI-E 3.0 x16 (2 FH, 10.5"L)
<b>Onboard Storage Controller</b>	LSI® 3108 controller for 8 SAS3 ports	Intel® C621 SATA3 (6 Gbps) controller
<b>Connectivity</b>	4x Gigabit Ethernet ports via AOC-UR-14G	2 10Gbase-T Ethernet via Intel® X540 Ethernet Controller 5 USB 3.0 ports (2 Rear, 2 Front, 1 Type A) 1 Serial Port
<b>VGA/Audio</b>	1 VGA, 1 Aspeed AST2400 BMC	2 VGA ports (1 rear, 1 onboard) 1 Aspeed AST2500 BMC
<b>Management</b>	IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5
<b>Drive Bays</b>	8x SAS3 Hot-swap 2.5" HDD bays (SAS3 3108) 2x NVMe Hot-swap 2.5" HDD bays	10 Hot-Swappable 2.5" drive bays: 6 NVMe ports (NVMe from CPU1) 4 NVMe/SAS3 hybrid ports for optional SAS3/SATA3 (NVMe from CPU 2)
<b>Power Supply</b>	750W High-efficiency (Platinum level) digital power supply	Redundant 1000W Titanium Level Power Supply
<b>Cooling System</b>	8 heavy duty fans w/ Optimal Fan Speed Control	8 Heavy Duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
<b>Form Factor</b>	1U Rackmount; Enclosure: 437 x 43 x 706mm (17.2" x 1.7" x 27.8") Gross Weight: 48lbs (21.77kg)	1U Chassis; Enclosure: 432 x 25 x 706mm (17.2" x 1.7" x 27.8")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**1U X11 Ultra**  
10x 2.5" Drive Bays



**1U X11 Ultra**  
10x 2.5" Drive Bays, SAS3 Expander



MODEL	SYS-1029U-TR4/TR4T/TRT/TRTP/TRTP2/TR25M	SYS-1029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CRTP2/E1CR25M
<b>Processor Support</b>	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>Flexible LAN options</li> <li>24 DIMM sockets</li> <li>4 PCI-E Add-on cards</li> <li>205W CPU support</li> <li>Platinum Level Power Supply</li> <li>2 SATA DOM support with embedded power</li> <li><b>-TR4:</b> 10x 2.5" SAS/SATA drive bays</li> <li><b>-TR4T/TRT/TRTP/TRTP2/TR25M:</b> 10x 2.5" SAS3 (12Gb/s) drive bays</li> </ul>	<ul style="list-style-type: none"> <li>Flexible LAN options</li> <li>10x 2.5" SAS3 (12Gb/s) drive bays</li> <li>24 DIMM sockets</li> <li>4 PCI-E Add-on cards</li> <li>205W CPU support</li> <li>Platinum Level Power Supply</li> <li>2 SATA DOM support with embedded power</li> </ul>
<b>Serverboard</b>	SUPER● X11DPU	SUPER● X11DPU
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz
<b>Expansion Slots</b>	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)
<b>Onboard Storage Controller</b>	Intel® C621 SATA controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 SATA3 (6Gb/s) controller
<b>Connectivity</b>	<ul style="list-style-type: none"> <li><b>-TR4:</b> 4 Gigabit Ethernet; 2 VGA ports (1 rear, 1 onboard) 5 USB 3.0 ports (2 rear, 2 front, 1 Type A); 1 Serial Port</li> <li><b>-TR4T</b> 4 10GBase-T Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> <li><b>-TRT:</b> 2 10GBase-T Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> <li><b>-TRTP:</b> 2 10G SFP+ Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> <li><b>-TRTP2:</b> 2 10G SFP+ Ethernet; 2 Gigabit Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> <li><b>-TR25M:</b> 2 25G SFP28 Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> </ul>	<ul style="list-style-type: none"> <li><b>-E1CR4:</b> 4 Gigabit Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> <li><b>-E1CR4T:</b> 4 10GBase-T Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> <li><b>-E1CRT:</b> 2 10GBase-T Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> <li><b>-E1CRTP:</b> 2 10G SFP+ Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> <li><b>-E1CRTP2:</b> 2 10G SFP+ Ethernet; 2 Gigabit Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> <li><b>-E1CR25M:</b> 2 25G SFP28 Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</li> </ul>
<b>VGA/Audio</b>	Aspeed AST2500 BMC <b>-TR4:</b> 2 VGA D-Sub Connector, 1 Aspeed AST2500 BMC;	Aspeed AST2500 BMC
<b>Management</b>	<ul style="list-style-type: none"> <li><b>-TR4:</b> Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;</li> <li><b>-TR4T/TRT/TRTP/TRTP2/TR25M:</b> Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;</li> </ul>	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
<b>Drive Bays</b>	<b>-TR4:</b> 10 hot-swap 2.5" drive support <b>-TR4T/TRT/TRTP/TRTP2/TR25M:</b> 10 hot-swap 2.5" drive bays; 10 SAS3 ports support via AOC	10 hot-swap 2.5" drive bays; 10 SAS3 ports support via Expander and AOC
<b>Peripheral Bays</b>	N/A	N/A
<b>Power Supply</b>	750W Platinum Level Power Supply	750W Platinum Level Power Supply
<b>Cooling System</b>	8 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	8 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
<b>Form Factor</b>	1U Chassis; Enclosure: 437 x 43 x 707mm (17.2" x 1.7" x 27.82")	1U Chassis; Enclosure: 437 x 43 x 707mm (17.2" x 1.7" x 27.82")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## 1U X11 Ultra

4x 3.5" NVMe Drive Bays



## 1U X11 Ultra

4x 3.5" Drive Bays



MODEL	SYS-6019U-TN4RT SYS-6019U-TN4R4T	SYS-6019U-TR4/TR4T/TRT/TRTP/TRTP2/TR25M
<b>Processor Support</b>	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>4 Hot-Swap NVMe Support</li> <li>4 3.5" drive bays</li> <li>24 DIMM sockets</li> <li>4 PCI-E Add-on cards</li> <li>205W CPU support</li> <li>Platinum Level Power Supply</li> <li>2 SATA DOM support with embedded power</li> </ul>	<ul style="list-style-type: none"> <li>Flexible LAN options</li> <li>24 DIMM sockets</li> <li>4 PCI-E Add-on cards</li> <li>4 3.5" drive bays</li> <li>205W CPU support</li> <li>Platinum Level Power Supply</li> <li>2 SATA DOM support with embedded power</li> </ul>
<b>Serverboard</b>	SUPER● X11DPU	SUPER● X11DPU
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz
<b>Expansion Slots</b>	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)	2 PCI-E 3.0 x 16 (FH, 10.5"L); 2 PCI-E 3.0 x 8 (1 LP, 1 Internal LP)
<b>Onboard Storage Controller</b>	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 SATA3 (6Gb/s) controller
<b>Connectivity</b>	<p><b>-TN4RT:</b> 2 10GBase-T Ethernet ports; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</p> <p><b>-TN4R4T:</b> 4x 10GBase-T Ethernet ports via AOC-UR-i4XTF; Intel® X710 + X557 10GBase-T; 1x Realtek RTL8211E PHY (dedicated IPMI); 2 VGA ports (1 rear, 1 onboard); 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</p>	<p><b>-TR4:</b> 4 Gigabit Ethernet; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</p> <p><b>-TR4T:</b> 4 10GBase-T Ethernet ports; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</p> <p><b>-TRT:</b> 2 10GBase-T Ethernet ports; 2 10G SFP+ Ethernet ports; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</p> <p><b>-TRTP:</b> 2 10G SFP+ Ethernet ports; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</p> <p><b>-TRTP2:</b> 2 Gigabit Ethernet ports; 2 10G SFP+ Ethernet ports; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</p> <p><b>-TR25M:</b> 2 25G SFP28 Ethernet Ports; 2 VGA ports (1 rear, 1 onboard) 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port</p>
<b>VGA/Audio</b>	Aspeed AST2500 BMC	Aspeed AST2500 BMC
<b>Management</b>	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
<b>Drive Bays</b>	4 hot-swap 3.5" drive support; 4 NVMe/SATA3 ports	4 hot-swap 3.5" drive support
<b>Peripheral Bays</b>		N/A
<b>Power Supply</b>	750W Platinum Level Power Supply	750W Platinum Level Power Supply
<b>Cooling System</b>	8 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud	8 heavy duty fans w/ Optimal Fan Speed Control, 1 Air Shroud
<b>Form Factor</b>	1U Chassis; Enclosure: 437 x 43 x 737mm (17.2" x 1.7" x 29")	1U Chassis; Enclosure: 437 x 43 x 737mm (17.2" x 1.7" x 29")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## 1U X11 Ultra

## 1U X11 GPU



MODEL	SYS-1029UZ-TN20R25M	SYS-1029GQ-TRT/TXRT/TNRT
<b>Processor Support</b>	Dual Intel® Xeon® Processor Skylake product family	Intel® Xeon® Processor Scalable Family (Skylake) with UPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Cloud Computing</li> <li>High Density Enterprise Server</li> <li>Software Defined Storage</li> </ul>	<ul style="list-style-type: none"> <li>High-performance computing</li> <li>Big Data Analytics</li> <li>Business Intelligence</li> <li>Research lab/National Lab</li> <li>Astrophysics</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>20 7mm 2.5" Hot-swap drive bays</li> <li>165W CPU support</li> <li>24 DIMM sockets</li> <li>Up to 2 PCI-E Add-on cards</li> <li>Dual 25G SFP28</li> <li>1600W Titanium Level Power Supply</li> <li>2 SATA DOMs Support with Embedded Power</li> </ul>	<ul style="list-style-type: none"> <li>Supports up to 4 GPUs in 1U</li> <li>Support Active/Passive GPUs</li> <li>Supports 2000W Titanium Power Supply</li> <li>IPMI 2.0 + KVM with dedicated LAN</li> <li>GPU health monitoring with fan speed control</li> </ul>
<b>Serverboard</b>	SUPER® X11DPU-Z+	SUPER® X11DGQ
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	24x DIMM slots, Up to 3TB ECC 3DS LRDIMM, Up to 2666 MHz	768GB 3DS ECC, DDR4-2666 in 12 DIMM slots
<b>Expansion Slots</b>	Up to 2 PCI-E 3.0 x8 (FH, FL);	<b>-TRT:</b> 4 PCI-E 3.0 x16 slots (FHFL); 1 PCI-E 3.0 x16 (LP); 1 PCI-E 3.0 x8 (LP) <b>-TNRT:</b> 4 PCI-E 3.0 x16 slots (FHFL); 1 PCI-E 3.0 x16 (LP); 1 PCI-E 3.0 x8 (LP) <b>-TXRT:</b> 3 x PCI-E by 16 slots; 1 x PCI-E by 8 low profile slots
<b>Onboard Storage Controller</b>	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
<b>Connectivity</b>	2 25G SFP28 Ethernet, 3 USB 3.0 ports (2 Rear, 1 Type A), 2 USB 2.0 ports (Front), 1 Serial Port	2 10GBase-T ports; Intel® X550 10GBase-T
<b>VGA/Audio</b>	1 VGA, 1 Aspeed AST2500 BMC;	Aspeed AST2500
<b>Management</b>	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
<b>Drive Bays</b>	20 Hot-Swappable 2.5" 7mm drive bays: 8 NVMe ports and 2 SAS/SATA3/NVMe Hybrid Ports from CPU1 and 10 NVMe ports from CPU2	2 x 2.5" hot-swap SAS/SATA/NVME drive bay; 2x 2.5" Internal Fixed drive bay
<b>Peripheral Bays</b>		N/A
<b>Power Supply</b>	1600W Titanium Level Power Supply	2000W Titanium level efficiency redundant power supplies
<b>Cooling System</b>	8 Heavy Duty fans w/ Optimal Fan Speed Control , 2 Air Shroud	9x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
<b>Form Factor</b>	1U Chassis; Enclosure: 437 x 43 x 706mm (17.2" x 1.7" x 27.8")	1U Rackmount 437 x 43 x 894mm (17.2" x 1.7" x 35.2") ; Enclosure: 437 x 43 x 894mm (17.2" x 1.7" x 35.2") Gross Weight: 58lbs (26.31kg) Net Weight: 45lbs (20.41kg)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## X11 Data Center Optimized

2.5" Short Depth



## X11 Data Center Optimized

3.5" Short Depth



MODEL	SYS-1029P-MT SYS-1029P-MTR	SYS-6019P-MT SYS-6019P-MTR
<b>Processor Support</b>	Intel Xeon Skylake-SP up to 140W	Intel Xeon Skylake-SP up to 140W
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Data Center</li> <li>Web Server</li> <li>Enterprise Server</li> <li>Managed Hosting</li> </ul>	<ul style="list-style-type: none"> <li>Data Center</li> <li>Web Server</li> <li>Enterprise Server</li> <li>Managed Hosting</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>2x 1GbE LAN Marvell 88E1512 PHY</li> <li>600W Single Power Supply, 80PLUS Platinum</li> <li>Short-Depth</li> <li>2x 1GbE port, 1x dedicated IPMI port</li> <li>IPMI 2.0 + KVM with dedicated LAN</li> </ul>	<ul style="list-style-type: none"> <li>2x 1GbE LAN Marvell 88E1512 PHY</li> <li>500W Single Power Supply, 80PLUS Platinum</li> <li>Short Depth</li> <li>2x 1GbE LAN Marvell 88E1512 PHY</li> <li>IPMI 2.0 + KVM with dedicated LAN</li> </ul>
<b>Serverboard</b>	SUPER <sup>®</sup> X11DPL-i	SUPER <sup>®</sup> X11DPL-i
<b>Chipset</b>	Intel <sup>®</sup> C620 chipset	Intel <sup>®</sup> C620 chipset
<b>System Memory (Max.)*</b>	8 DIMM, 1TB Reg. ECC DDR4 up to 2666 MHz	1TB Registered ECC, DDR4-2666MHz in 8 DIMM slots
<b>Expansion Slots</b>	1 PCI-E 3.0x16 (FHHL)	1 PCI-E 3.0x16 (FHHL)
<b>Onboard Storage Controller</b>	SATA3 (6Gbps); RAID 0, 1, 5, 10	SATA3 (6Gbps); RAID 0, 1, 5, 10
<b>Connectivity</b>	2x 1GbE LAN Marvell 88E1512 PHY	2x 1GbE LAN Marvell 88E1512 PHY
<b>VGA/Audio</b>	AST2500 VGA	AST2500 VGA
<b>Management</b>	Intel <sup>®</sup> Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor <sup>®</sup> 5; Watchdog;	Intel <sup>®</sup> Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor <sup>®</sup> 5; Watchdog;
<b>Drive Bays</b>	8 Hot-Swap 2.5" SATA3 6Gb/s	null
<b>Peripheral Bays</b>	<b>-MT:</b> Optional PCI M.2 NVMe drive 1x Slim DVD-ROM drive (optional) <b>-MTR:</b> 1x Slim DVD-ROM drive (optional) Optional PCI M.2 NVMe drive	Optional PCI M.2 NVMe drive
<b>Power Supply</b>	<b>-MT:</b> 600W Single Power Supply, 80PLUS Platinum <b>-MTR:</b> 600W Redundant Power Supply, 80PLUS Platinum	<b>-MT:</b> 500W Single Power Supply, 80PLUS Platinum <b>-MTR:</b> 600W Redundant Power Supply, 80PLUS Platinum
<b>Cooling System</b>	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan
<b>Form Factor</b>	1U 17.2" (437mm) x 1.7" (43mm) x 19.98" (507mm) Gross Weight: 40lbs (18.14kg)	1U Rackmount 437 x 43 x 508mm (17.2" x 1.7" x 19.98") Gross Weight: 36lbs (16.33kg)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

**X11 W10**  
1U 4x 3.5" Drive Bays

**X11 W10**



MODEL	SYS-6019P-WT/WTR/WT8	SYS-1029P-WT
<b>Processor Support</b>	Intel® Xeon® processor E5-2600 V5 with QPI up to 10.4 GT/s	Intel® Xeon® Processor Scalable Family – Skylake with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• Web Server</li> <li>• FireWall Applications</li> <li>• Corporate- WINS, DNS, Print, Login</li> <li>• Gateway, provisioning servers</li> <li>• Compact Network Appliance</li> <li>• Cloud Computing</li> </ul>	<ul style="list-style-type: none"> <li>• Web Server</li> <li>• FireWall Applications</li> <li>• Corporate- WINS, DNS, Print, Login</li> <li>• Gateway, provisioning servers</li> <li>• Compact Network Appliance</li> <li>• Cloud Computing</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• Supports up to 3 PCI-E cards</li> <li>• M.2 Support</li> <li>• Flexible I/O options</li> <li>-WT/WTR: 4x 3.5" SAS3/SATA3 drive bays</li> <li>-WT8: 8x 3.5" &amp; 2x 2.5" Fixed SATA3 drive bays in 1U</li> </ul>	<ul style="list-style-type: none"> <li>• Supports up to 3 PCIe cards</li> <li>• M.2 Support</li> <li>• Flexible I/O options</li> <li>• 8x 2.5" SAS3/SATA3 drive bays</li> <li>• Supports 1 Slim DVD-ROM</li> </ul>
<b>Serverboard</b>	SUPER® X11DDW-L	SUPER® X11DDW-L
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots	768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots
<b>Expansion Slots</b>	2x PCI-E 3.0 x16 (FHHL) slots, 1x PCI-E 3.0 x8 (LP) slot, 1 PCI-E 3.0 x16 for Add-On-Module (AOM)	2x PCI-E 3.0 x16 (FHHL) slots, 1x PCI-E 3.0 x8 (LP) slot, 1 PCI-E 3.0 x16 for Add-On-Module (AOM)
<b>Onboard Storage Controller</b>	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
<b>Connectivity</b>	Dual LAN with Lewisburg;	Dual LAN with Lewisburg;
<b>VGA/Audio</b>	Onboard VGA	Onboard VGA
<b>Management</b>	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
<b>Drive Bays</b>	-WT: 4x 3.5" hot-swap SAS/SATA -WTR: 4x 3.5" Hot-swap SATA3 Drive Bays -WT8: 8x 3.5" fixed SATA drive bays, 2x 2.5" fixed SATA drive bays.	8x 2.5" hot-swap SAS3/SATA3 drive bays
<b>Peripheral Bays</b>	-WT/WTR: 1x slim DVD-ROM drive bay	1x slim DVD-ROM drive bay
<b>Power Supply</b>	-WT: 600W high-efficiency (Platinum Level) multiple output power supply w/ pmbus -WTR: Redundant 700/750W High-efficiency (platinum level) power supply -WT8: 600/650w high-efficiency (Platinum Level) multi-output power supply	600W high-efficiency (Platinum Level) multiple output power supply w/pmbus
<b>Cooling System</b>	4x 40x56mm counter-rotation PWM fan;	4x 40x56mm counter-rotation PWM fan; 2x fan for PCI card cooling
<b>Form Factor</b>	-WT/WTR: 1U 17.2" (437mm) x 1.7" (43mm) x 25.6" (650mm) -WT8: 1U 17.2" (437mm) x 1.7" (43mm) x 32" (813mm)	1U 17.2" (437mm) x 1.7" (43mm) x 23.5" (597mm); Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details





## X11 WIO



## X11 WIO

1U 10x 2.5" Drive Bays, 10GbE



MODEL	SYS-1029P-WT	SYS-1029P-WTRT
<b>Processor Support</b>	Intel® Xeon® Processor Scalable Family – Skylake with QPI up to 10.4 GT/s	Intel® Xeon® processor E5-2600 V5 with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• Web Server</li> <li>• FireWall Applications</li> <li>• Corporate- WINS, DNS, Print, Login</li> <li>• Gateway, provisioning servers</li> <li>• Compact Network Appliance</li> <li>• Cloud Computing</li> </ul>	<ul style="list-style-type: none"> <li>• Web Server</li> <li>• FireWall Applications</li> <li>• Corporate- WINS, DNS, Print, Login</li> <li>• Gateway, provisioning servers</li> <li>• Compact Network Appliance</li> <li>• Cloud Computing</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• Supports up to 3 PCIe cards</li> <li>• M.2 Support</li> <li>• Flexible I/O options</li> <li>• 8x 2.5" SAS3/SATA3 drive bays</li> <li>• Supports 1 Slim DVD-ROM</li> </ul>	<ul style="list-style-type: none"> <li>• 2x NVMe/SAS3/SATA3 Hybrid Drive Bays</li> <li>• M.2 Support</li> <li>• Supports up to 3 PCIe cards</li> <li>• Dual 10GbE LAN Ports</li> <li>• 10x 2.5" SAS3/SATA3 Drive Bays</li> </ul>
<b>Serverboard</b>	SUPER● X11DDW-L	SUPER● X11DDW-NT
<b>Chipset</b>	Intel® C621 chipset	Intel® C622 chipset
<b>System Memory (Max.)*</b>	768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots	768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots
<b>Expansion Slots</b>	2x PCI-E 3.0 x16 (FHHL) slots, 1x PCI-E 3.0 x8 (LP) slot, 1 PCI-E 3.0 x16 for Add-On-Module (AOM)	1 PCI-E 3.0 x32 Left Riser Slot; 1 PCI-E 3.0 x16 Right Riser Slot; 1 PCI-E 3.0 x16 for Add-On-Module (AOM);
<b>Onboard Storage Controller</b>	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	SuperServer Onboard Storage Controller:
<b>Connectivity</b>	Dual LAN with Lewisburg;	2x RJ45 10GbE-T ports 1x RJ45 Dedicated IPMI LAN port
<b>VGA/Audio</b>	Onboard VGA	Onboard VGA
<b>Management</b>	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
<b>Drive Bays</b>	8x 2.5" hot-swap SAS3/SATA3 drive bays	8x 2.5" hot-swap SAS/SATA drive bays, 2x 2.5" hot-swap NVMe/SAS/SATA hybrid drive bays
<b>Peripheral Bays</b>	1x slim DVD-ROM drive bay	N/A
<b>Power Supply</b>	600W high-efficiency (Platinum Level) multiple output power supply w/pmbus	Redundant 700/750W high-efficiency (Platinum Level) power supply
<b>Cooling System</b>	4x 40x56mm counter-rotation PWM fan; 2x fan for PCI card cooling	4x 40x56mm counter-rotation PWM fan; 2x fans for AOC cooling
<b>Form Factor</b>	1U 17.2" (437mm) x 1.7" (43mm) x 23.5" (597mm); Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5")	1U 17.2" (437mm) x 1.7" (43mm) x 23.5" (597mm); Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## Storage

## 2U X11 Ultra



MODEL	SYS-6019P-ACR12L	SYS-2029UZ-TR4+
<b>Processor Support</b>	Intel® Xeon® Processor Scalable Family – Skylake with QPI up to 10.4 GT/s	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Corporate Database</li> <li>Data Center</li> <li>Database Processing &amp; Storage</li> <li>Enterprise Server</li> <li>Big Data Analytics</li> <li>Hadoop</li> </ul>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Hyperconverge Storage</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>4x 2.5" hot-swap NVMe/SATA drive bays</li> <li>LSI 3224 SAS3 IT mode controller</li> <li>12x 3.5" hot-swap SAS3/SATA3 drive bays</li> <li>4x 2.5" hot-swap NVMe/SATA drive bays</li> <li>160W CPU support</li> <li>Dual 10G BaseT</li> <li>Internal Cable Arm</li> </ul>	<ul style="list-style-type: none"> <li>Flexible LAN Options</li> <li>24x 2.5" hot-swap drive bays</li> <li>Optional SAS3 and NVMe support</li> <li>24 DIMM support</li> <li>8 PCI-E Add-on cards</li> <li>1600W Titanium Level Power Supply</li> <li>Quad Gigabit Ethernet LAN</li> </ul>
<b>Serverboard</b>	SUPER® X11DDW-NT	SUPER® X11DPU-Z+
<b>Chipset</b>	Intel® C622 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots
<b>Expansion Slots</b>	1 PCI-E 3.0 x32 Left Riser Slot; 1 PCI-E 3.0 x16 Right Riser Slot; 1 PCI-E 3.0 x16 for Add-On-Module (AOM);	1 PCI-E 3.0 x16 (FH, 10.5"L); 5 PCI-E 3.0 x8 (FH, 10.5"L); 1 PCI-E 3.0 x8 (LP); 1 PCI-E 3.0 x8 (internal LP)
<b>Onboard Storage Controller</b>	Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 SATA3 (6Gb/s) controller
<b>Connectivity</b>	Dual LAN with Lewisburg;	4 GbE ports; Intel® i350
<b>VGA/Audio</b>	1 VGA, 1 Aspeed AST2500 BMC;	Aspeed AST2500
<b>Management</b>	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
<b>Drive Bays</b>	12x 3.5" hot-swap SAS3/SATA3 drive bays 4x 2.5" hot-swap NVMe/SATA drive bays	24 Hot-swap 2.5" Drive Bays; 14 SATA3 ports by default; Optional drive support: 20 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5" Drive Bays
<b>Peripheral Bays</b>		N/A
<b>Power Supply</b>		1600W Redundant Power Supplies with PMBus
<b>Cooling System</b>		4 8cm heavy duty PWM fans
<b>Form Factor</b>		2U Rackmount; Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.76")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## 2U X11 Ultra



## 2U X11 Ultra

24x 2.5" NVMe Drive Bays



MODEL	SYS-6029UZ-TR4+	SYS-2029U-TN24R4T
<b>Processor Support</b>	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Hyperconverge Storage</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Hyperconverge Storage</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>Flexible LAN Options</li> <li>12x 3.5" hot-swap drive bays</li> <li>Optional SAS3 and NVMe support</li> <li>24 DIMM support</li> <li>8 PCI-E Add-on cards</li> <li>1600W Titanium Level Power Supply</li> <li>Quad Gigabit Ethernet LAN</li> </ul>	<ul style="list-style-type: none"> <li>24x 2.5" hot-swap NVMe drive bays</li> <li>3 PCI-E Add-on cards</li> <li>24 DIMM support</li> <li>Redundant 1600W Titanium Level high-efficiency power supplies</li> <li>4 x 10GBase-T Ports</li> </ul>
<b>Serverboard</b>	SUPER● X11DPU-Z+	SUPER● X11DPU
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots	Up to 3TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots
<b>Expansion Slots</b>	1 PCI-E 3.0 x16 (FH, 10.5" L); 5 PCI-E 3.0 x8 (FH, 10.5" L); 1 PCI-E 3.0 x8 (LP); 1 PCI-E 3.0 x8 (internal LP)	2 PCI-E 3.0 x16 (FH, 10.5" L); 1 PCI-E 3.0 x8 (LP)
<b>Onboard Storage Controller</b>	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 SATA3 (6Gb/s) controller
<b>Connectivity</b>	4 GbE Ports; Intel® i350	4 10GBase-T ports with Intel® X550 Ethernet Controller; 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port
<b>VGA/Audio</b>	Aspeed AST2500	2 VGA ports (1 rear, 1 onboard); 1 Aspeed AST2500 BMC
<b>Management</b>	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
<b>Drive Bays</b>	12 Hot-swap 3.5" Drive Bays; 12 SATA3 ports by default; Optional drive support: 8 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5" Drive Bays	24 Hot-swap 2.5" NVMe Drive Bays; Optional 20 NVMe + 4 NVMe/SAS3; 2x 2.5" 2 Rear Hot-swap 2.5" Drive Bays (2x SATA3 ports default)
<b>Peripheral Bays</b>	N/A	N/A
<b>Power Supply</b>	1600W Redundant Power Supplies with PMBus	1600W Redundant Power Supplies with PMBus
<b>Cooling System</b>	4 8cm heavy duty PWM fans	4 8cm heavy duty PWM fans
<b>Form Factor</b>	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")	2U Rackmount; Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.76")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## 2U X11 Ultra

## 2U X11 Ultra

24x 2.5" SAS3/SATA3 Drive Bays



MODEL	SYS-2029UZ-TN20R25M	SYS-2029U-TR4/TR4T/TRT/TRTP/TR25M
<b>Processor Support</b>	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Hyperconverge Storage</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Hyperconverge Storage</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>20 Port NVMe port direct connect</li> <li>24 DIMM sockets</li> <li>Redundant 1600W Titanium Level high-efficiency power supplies</li> <li>Dual 25G SFP28</li> </ul>	<ul style="list-style-type: none"> <li>Flexible LAN Options</li> <li>24x 2.5" hot-swap drive bays</li> <li>Optional SAS3 and NVMe support</li> <li>24 DIMM support</li> <li>8 PCI-E Add-on cards</li> <li>1000W Titanium Level Power Supply</li> <li>Quad Gigabit Ethernet LAN</li> </ul>
<b>Serverboard</b>	SUPER® X11DPU-Z+	SUPER® X11DPU
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 3TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots
<b>Expansion Slots</b>	1 PCI-E 3.0 x8 (LP)	<b>-TR4/TRT/TRTP/TR25M:</b> 1 PCI-E 3.0 x16 (FH, 10.5" L); 5 PCI-E 3.0 x8 (FH, 10.5" L); 1 PCI-E 3.0 x8 (LP); 1 PCI-E 3.0 x8 (internal LP) <b>-TR4T:</b> 2 PCI-E 3.0 x16 (FH, 10.5" L); 4 PCI-E 3.0 x8 (FH, 10.5" L); 1 PCI-E 3.0 x8 (LP)
<b>Onboard Storage Controller</b>	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 SATA3 (6Gb/s) controller
<b>Connectivity</b>	2U Ultra Riser with 2-port 25GbE SFP28, based on Mellanox ConnectX-4 Lx EN; 3 USB 3.0 ports (2 rear, 1 Type A); 1 Serial Port	<b>-TR4:</b> 4 GbE ports; Intel® i350 <b>-TR4T:</b> 4 10GBase-T ports; Intel® X540 <b>-TRT:</b> 2 10GBase-T ports; Intel® X540 <b>-TRTP:</b> 2 10G SFP+ ports; Intel® 82599ES <b>-TR25M:</b> 2 25GbE SFP28 ports; Mellanox® ConnectX®-4 Lx EN
<b>VGA/Audio</b>	2 VGA ports (1 rear, 1 onboard); 1 Aspeed AST2500 BMC	Aspeed AST2500
<b>Management</b>	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
<b>Drive Bays</b>	24 Hot-swap 2.5" NVMe Drive Bays; Optional 20 NVMe + 4 NVMe/SAS3	24 Hot-swap 2.5" Drive Bays; 14 SATA3 ports by default; Optional drive support: 20 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5" Drive Bays
<b>Peripheral Bays</b>	N/A	
<b>Power Supply</b>	1600W Redundant Power Supplies with PMBus	1000W Redundant Power Supplies with PMBus
<b>Cooling System</b>	4 8cm heavy duty PWM fans	4 8cm heavy duty PWM fans
<b>Form Factor</b>	2U Rackmount; Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.76")	2U Rackmount; Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.76")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## 2U X11 Ultra

24x 2.5" Drive Bays, SAS3 Expander



## 2U X11 Ultra

12x 3.5" Drive Bays



MODEL	SYS-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M	SYS-6029U-TR4/TR4T/TRT/TRTP/TR25M
<b>Processor Support</b>	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Hyperconverge Storage</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Hyperconverge Storage</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>Flexible LAN Options</li> <li>24x 2.5" hot-swap drive bays</li> <li>SAS3.0 (12Gbps) support</li> <li>Optional NVMe support</li> <li>24 DIMM support</li> <li>8 PCI-E Add-on cards</li> <li>1000W Titanium Level Power Supply</li> <li>Quad Gigabit Ethernet LAN</li> </ul>	<ul style="list-style-type: none"> <li>Flexible LAN Options</li> <li>12x 3.5" hot-swap drive bays</li> <li>Optional SAS3 and NVMe support</li> <li>24 DIMM support</li> <li>8 PCI-E Add-on cards</li> <li>1000W Titanium Level Power Supply</li> <li>Quad Gigabit Ethernet LAN</li> </ul>
<b>Serverboard</b>	SUPER● X11DPU	SUPER● X11DPU
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots
<b>Expansion Slots</b>	<b>-E1CR4/E1CRT/E1CRTP/E1CR25M:</b> 1 PCI-E 3.0 x16 (FH, 10.5"L); 5 PCI-E 3.0 x8 (FH, 10.5"L); 1 PCI-E 3.0 x8 (LP); 1 PCI-E 3.0 x8 (internal LP) <b>-E1CR4T:</b> 2 PCI-E 3.0 x16 (FH, 10.5"L); 4 PCI-E 3.0 x8 (FH, 10.5"L); 1 PCI-E 3.0 x8 (LP)	<ul style="list-style-type: none"> <li>1 PCI-E 3.0 x8 (LP);</li> <li><b>-TRA/TRT/TRTP/TR25M:</b> 1 PCI-E 3.0 x16 (FH, 10.5"L), 5 PCI-E 3.0 x8 (FH, 10.5"L), 1 PCI-E 3.0 x8 (internal LP)</li> <li><b>-TR4T:</b> 2 PCI-E 3.0 x16 (FH, 10.5"L), 4 PCI-E 3.0 x8 (FH, 10.5"L)</li> </ul>
<b>Onboard Storage Controller</b>	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 SATA3 (6Gb/s) controller
<b>Connectivity</b>	<b>-E1CR4:</b> 4 GbE ports; Intel® i350 <b>-E1CR4T:</b> 4 10GBase-T ports; Intel® XL710 <b>-E1CRT:</b> 2 10GBase-T ports; Intel® X540 <b>-E1CRTP:</b> 2 10G SFP+ ports; Intel® 82599ES <b>-E1CR25M:</b> 2 25GbE SFP28 ports; Mellanox® ConnectX®-4 Lx EN	<b>-TR4:</b> 4 GbE Ports; Intel® i350 <b>-TR4T:</b> 4 10GBase-T Ports; Intel® XL710 <b>-TRT:</b> 2 10GBase-T Ports; Intel® X540 <b>-TRTP:</b> 2 10G SFP+ ports; Intel® 82599ES <b>-TR25M:</b> 2 25GbE SFP28 ports; Mellanox® ConnectX®-4 Lx EN
<b>VGA/Audio</b>	Aspeed AST2500	Aspeed AST2500
<b>Management</b>	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;
<b>Drive Bays</b>	24 Hot-swap 2.5" Drive Bays; 24 SAS3 ports support via Expander and AOC; Optional drive support: 20 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5" Drive Bays	12 Hot-swap 3.5" Drive Bays; 12 SATA3 ports by default; Optional drive support: 8 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5" Drive Bays
<b>Peripheral Bays</b>		
<b>Power Supply</b>	1000W Redundant Power Supplies with PMBus	1000W Redundant Power Supplies with PMBus
<b>Cooling System</b>	4 8cm heavy duty PWM fans	4 8cm heavy duty PWM fans
<b>Form Factor</b>	2U Rackmount; Enclosure: 437 x 89 x 705mm (17.2" x 3.5" x 27.76")	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## 2U X11 Ultra

12x 3.5" Drive Bays



## 1U X11 GPU



MODEL	SYS-6029U-E1CR4/E1CR4T/E1CRT/E1CRTP/E1CR25M	SYS-1029GP-TR
<b>Processor Support</b>	Dual Intel® Xeon® Processor Scalable Family (Skylake-SP) with UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Virtualization</li> <li>Hyperconverge Storage</li> <li>Cloud Computing</li> <li>High End Enterprise Server</li> </ul>	<ul style="list-style-type: none"> <li>2D/3D and CAD Applications</li> <li>3D Rendering</li> <li>Astrophysics</li> <li>Chemistry</li> <li>Cloud and Virtualization needs</li> <li>Cloud Computing</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>Flexible LAN Options</li> <li>12x 3.5" hot-swap drive bays</li> <li>SAS3.0 (12Gbps) support</li> <li>Optional NVMe support</li> <li>24 DIMM support</li> <li>8 PCI-E Add-on cards</li> <li>1000W Titanium Level Power Supply</li> <li>Quad Gigabit Ethernet LAN</li> </ul>	<ul style="list-style-type: none"> <li>16 DIMM sockets</li> <li>4x 2.5" SATA drives</li> <li>GPU health monitoring with fan speed control</li> <li>Up to 3 GPU cards in 1U</li> </ul>
<b>Serverboard</b>	SUPER <sup>®</sup> X11DPU	SUPER <sup>®</sup> X11DPG-SN
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 3TB ECC LRDIMM/RDIMM; DDR4 up to 2666MT/s, in 24 DIMM slots	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>1 PCI-E 3.0 x8 (LP);</li> <li><b>-E1CR4/E1CRT/E1CRTP/E1CR25M:</b> 1 PCI-E 3.0 x16 (FH, 10.5"L), 5 PCI-E 3.0 x8 (FH, 10.5"L), 1 PCI-E 3.0 x8 (internal LP)</li> <li><b>-E1CR4T:</b> 2 PCI-E 3.0 x16 (FH, 10.5"L), 4 PCI-E 3.0 x8 (FH, 10.5"L)</li> </ul>	4 PCI-E 3.0 x16; 1 PCI-E 3.0 x8 (in x16) low profile slot
<b>Onboard Storage Controller</b>	Intel® C621 SATA3 (6Gb/s) controller	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
<b>Connectivity</b>	<ul style="list-style-type: none"> <li><b>-E1CR4:</b> 4 GbE Ports; Intel® i350</li> <li><b>-E1CR4T:</b> 4 10GBase-T Ports; Intel® XL710</li> <li><b>-E1CRT:</b> 2 10GBase-T Ports; Intel® X540</li> <li><b>-E1CRTP:</b> 2 10G SFP+ ports; Intel® 82599ES</li> <li><b>-E1CR25M:</b> 2 25GbE SFP28 ports; Mellanox® ConnectX<sup>®</sup>-4LxEN</li> </ul>	N/A
<b>VGA/Audio</b>	Aspeed AST2500	1 VGA, 1 Aspeed AST2500 BMC;
<b>Management</b>	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor <sup>®</sup> 5;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor <sup>®</sup> 5; Watchdog;
<b>Drive Bays</b>	12 Hot-swap 3.5" Drive Bays; 12 SAS3 ports support via Expander and AOC; Optional drive support: 8 SAS3 + 4 SAS3/NVMe; Optional 2 Rear Hot-swap 2.5" Drive Bays	4 x 2.5" hot-swap SAS/SATA drive bay
<b>Peripheral Bays</b>		N/A
<b>Power Supply</b>	1000W Redundant Power Supplies with PMBus	1600W Platinum level efficiency redundant power supplies
<b>Cooling System</b>	4 8cm heavy duty PWM fans	10 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
<b>Form Factor</b>	2U Rackmount; Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")	1U 17.2" (437mm) x 1.7" (43 mm) x 30.6" (777 mm)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## 2U X11 GPU

## X11 WIO



MODEL	SYS-2029GP-TR	SYS-6029P-WTR
<b>Processor Support</b>	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s	Intel® Xeon® processor E5-2600 V5 with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• 2D/3D and CAD Applications</li> <li>• 3D Rendering</li> <li>• Astrophysics</li> <li>• Chemistry</li> <li>• Cloud and Virtualization needs</li> <li>• Cloud Computing</li> </ul>	<ul style="list-style-type: none"> <li>• Web Server</li> <li>• FireWall Applications</li> <li>• Corporate- WINS, DNS, Print, Login</li> <li>• Gateway, provisioning servers</li> <li>• Compact Network Appliance</li> <li>• Cloud Computing</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• 6 PCI-E x16 slots; 1 PCI-E x8 (in x16) low profile slot</li> <li>• 10x 2.5" SAS/SATA drive bays</li> <li>• 16 DIMM sockets</li> <li>• GPU health monitoring with fan speed control</li> <li>• High-density, Enterprise Performance, Cost-effective</li> </ul>	<ul style="list-style-type: none"> <li>• Supports up to 6 PCIe cards</li> <li>• M.2 Support</li> <li>• Flexible I/O options</li> <li>• 8x 3.5" SAS3/SATA3 drive bays</li> <li>• Supports 1x Slim DVD-ROM and 1 COM &amp; 2 USB3.0 ports module</li> <li>• Supports 1x AOM SAS3 Mezzanine Card</li> </ul>
<b>Serverboard</b>	SUPER● X11DPG-SN	SUPER● X11DDW-L
<b>Chipset</b>		Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	768GB 3DS ECC, DDR4-2666MHz in 12 DIMM slots
<b>Expansion Slots</b>	4 x PCI-E by 16 slots (GPU/MIC opt.); 1 x PCI-E by 8 (in x16) low profile slot	4x PCI-E 3.0 x8 (FHHL), 2x PCI-E 3.0 x8 (LP) slots, 1 PCI-E 3.0 x16 for Add-On-Module (AOM)
<b>Onboard Storage Controller</b>	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
<b>Connectivity</b>		Dual LAN with GbE;
<b>VGA/Audio</b>	1 VGA, 1 Aspeed AST2500 BMC;	Onboard VGA
<b>Management</b>	Intel® Node Manager; IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
<b>Drive Bays</b>	10 x 2.5" hot-swap SAS/SATA drive bay	8x 3.5" hot-swap SAS/SATA drive bays
<b>Peripheral Bays</b>	N/A	1x optional slim DVD-ROM drive bay
<b>Power Supply</b>	1600W Platinum level efficiency redundant power supplies	Redundant 800W high-efficiency (Platinum Level) power supply
<b>Cooling System</b>	5x 8cm heavy duty fans with optimal fan speed control	3x 80mm heavy duty fans with PWM fan speed control;
<b>Form Factor</b>	2U 17.2" (437mm) x 3.5" (89 mm) x 31" (787 mm)	2U 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm); Enclosure: 437 x 89 x 648mm (17.2" x 3.5" x 25.5")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## X11 WIO

## X11 Mainstream

8x 2.5" SAS3 Drive Bays



MODEL	SYS-6029P-WTRT	SYS-2029P-C1R/C1RT
<b>Processor Support</b>	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s	Dual Socket P (LGA 3647), Intel® Xeon® processor Scalable Family; UPI up to 10.4GT/s, Support CPU TDP 45-205W
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Web Server</li> <li>FireWall Applications</li> <li>Corporate- WINS, DNS, Print, Login</li> <li>Gateway, provisioning servers</li> <li>Compact Network Appliance</li> <li>Cloud Computing</li> </ul>	<ul style="list-style-type: none"> <li>Application and data serving</li> <li>Big Data Analytics</li> <li>Business Critical Applications</li> <li>Compute Intensive Application</li> <li>Compute Intensive Storage Environments</li> <li>Connectivity/Storage Computer Nodes</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>Supports up to 5 PCIe cards</li> <li>Supports Up to 4x Optional NVMe Drives</li> <li>12x 3.5" hot-swap SAS3/SATA3 drive bays</li> <li>M.2 Support</li> <li>Dual 10GBaseT LAN Ports</li> <li>Redundant 1200W Titanium Level Power Supply</li> <li>Supports 1x AOM SAS3 Mezzanine Card</li> </ul>	<ul style="list-style-type: none"> <li>optional support 2x NVMe fixed drives</li> <li>1x M.2 support by default</li> <li>8x 2.5" SAS &amp; 2x SATA3 2.5" HDD Bay</li> <li>2 SATA DOM support with embedded power</li> <li>16 DIMM sockets</li> <li>1200W Redundant Power, Titanium Level (96% typical efficiency)</li> <li>Independent power &amp; cooling control</li> </ul>
<b>Serverboard</b>	SUPER● X11DDW-NT	SUPER● X11DPI-N
<b>Chipset</b>	Intel® C622 chipset	<b>-C1R:</b> Intel® C621 chipset <b>-C1RT:</b> Intel® C622 chipset
<b>System Memory (Max.)*</b>	Up to 1.5TB ECC 3DS LRDIMM, DDR4 up to 2666MHz, 12 DIMM slots	Up to 2TB ECC RDIMM/LRDIMM, DDR4-2666MHz in 16 DIMM slots
<b>Expansion Slots</b>	1x PCI-E 3.0 x16 (FHHL), 4x PCI-E 3.0 x8 (2x FHHL, 2x LP), 1 PCI-E 3.0 x16 for Add-On-Module (AOM)	Supports total 5x low profile add-on cards in 4x PCI-E 3.0 x16, 1x PCI-E 3.0 x8 slots
<b>Onboard Storage Controller</b>	Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	RAID 0,1,5,10; Broadcom 3108 HW with 2G Cache controller (AOC-S3108L-H8iR-16DD) for 8 SAS3 (12Gbps) ports; RAID 0,1,5,6,10,50,60; <b>-C1R:</b> Intel® C621 controller for 10 SATA3 (6 Gbps) ports <b>-C1RT:</b> Intel® C622 controller for 10 SATA3 (6 Gbps) ports
<b>Connectivity</b>	2x RJ45 10GBase-T ports 1x RJ45 Dedicated IPMI LAN port	Dual LAN RJ45 ports with Intel® X722 Gigabit Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port
<b>VGA/Audio</b>	Onboard VGA	1 VGA, 1 Aspeed AST2500 BMC;
<b>Management</b>	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
<b>Drive Bays</b>	12x 3.5" hot-swap SAS/SATA drive bays (4x NVMe/SAS3/SATA3 hybrid drive bays)	8x 2.5" 12Gbps SAS3 and 8x 2.5" 6Gbps SATA3, total 16 hot-swap drives
<b>Peripheral Bays</b>	N/A	USB Support: Rear: 2x3.0 + 2x2.0, Front: 2x2.0, and 1x Type A; optional DVD-ROM drive: support either 1x slim or 1x 5.25" DVD drive.
<b>Power Supply</b>	Redundant 1200W high-efficiency (Titanium Level) power supply	2x Redundant 1200W Redundant Power, Titanium Level (96% typical efficiency )
<b>Cooling System</b>	3x 80mm heavy duty fans with PWM fan speed control	3x 80mm heavy duty fans with PWM fan speed and cooling zone control; Adjustable Air Shroud with Enhanced cooling design
<b>Form Factor</b>	2U 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm); Enclosure: 437 x 89 x 648mm (17.2" x 3.5" x 25.5")	System Dimension: 3.5" (89mm) x 17.2" (437mm) x 24.8" (630mm); Package Dimension: 26.5" (W) x 10.5" (H) x 38" (L); Enclosure: 437 x 89 x 630mm (17.2" x 3.5" x 24.8")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## X11 Mainstream

8x 3.5" SATA3 Drive Bays



## X11 Max I/O

2U 11 PCI-E Slots



MODEL	SYS-6029P-TR/TRT	SYS-2029P-TXRT
<b>Processor Support</b>	Dual Socket P (LGA 3647), Intel® Xeon® processor Scalable Family; UPI up to 10.4GT/s, Support CPU TDP 45-205W	Intel® Xeon® Processor Scalable Family – Skylake
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• Cloud and Virtualization needs</li> <li>• Compute Intensive Application</li> <li>• Compute Intensive Storage Environments</li> <li>• Database Processing &amp; Storage</li> <li>• High Availability Storage Appliance Platform</li> <li>• Hosting &amp; Application delivery</li> </ul>	<ul style="list-style-type: none"> <li>• Industrial Server</li> <li>• Networking Telephony</li> <li>• Surveillance DCR</li> <li>• GPU Pass-through VM server</li> <li>• Flash Array Server</li> <li>• Head-node controller</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• optional support 2x NVMe fixed drives</li> <li>• 16 DIMM sockets</li> <li>• 2 SATA DOM support with embedded power</li> <li>• 1000W Titanium Level high-efficiency power supply</li> <li>• 1x M.2 Support by default</li> </ul> <b>TR:</b> 2 Gigabit Ethernet Ports <b>-TRT:</b> 2x 10GBase-T Ports	<ul style="list-style-type: none"> <li>• SKL+FPGA (up to 255W), 3 UPI designed for up to 11.2 GT/s</li> <li>• 11 Low-profile PCI-E slots</li> <li>• 16x Hot-swap 2.5" HDD Bays</li> <li>• 1x PCI-E 3.0 x4 M.2 Slot</li> <li>• Redundant (1+1) 1KW 1000 W Titanium level 96+%</li> </ul>
<b>Serverboard</b>	<b>-TR:</b> SUPER ● X11DPI-N <b>-TRT:</b> SUPER ● X11DPI-NT	SUPER ● X11DPX-T
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 2TB ECC RDIMM/LRDIMM, DDR4-2666MHz in 16 DIMM slots	Up to 2TB Registered ECC, DDR4-2666MHz in 16 DIMM slots
<b>Expansion Slots</b>	Supports total 6x low profile add-on cards in 4x PCI-E 3.0 x16, 2x PCI-E 3.0 x8 slots	11 Low-profile PCI-E slots 2 PCI-E 3.0 x16 Slots (2x HSSI for CPU1/2 SKL+FPGA) 8 PCI-E 3.0 x8 Slots 1 PCI-E 3.0 x4 in x8 slot
<b>Onboard Storage Controller</b>	Intel® C621 controller for 8 SATA3 (6Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
<b>Connectivity</b>	<b>-TR:</b> Dual LAN RJ45 ports with Intel® X722 Gigabit Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port <b>-TRT:</b> Dual LAN RJ45 ports with Intel® X722 10G Based-T Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port	Dual 10G baseT LAN(X550-AT2)
<b>VGA/Audio</b>	Aspeed AST2500	1 VGA, Aspeed AST2500
<b>Management</b>	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI2.0
<b>Drive Bays</b>	8x 3.5" hot-swap SATA3 drive bay	16x 2.5" SATA/ SAS Hot Swap HDD Bay
<b>Peripheral Bays</b>	USB Support: Rear: 2x3.0 + 2x2.0, Front 2x2.0 front, 1x Type A, optional 1x slim DVD-ROM drive bay and 2x NVMe fixed drives	1x slim DVD-ROM drive bay 2x USB 2.0 ports 1x COM port tray 1x standard 5.25" drive bay
<b>Power Supply</b>	2x Redundant 1000W Redundant Power Supply Titanium Level (96% typical efficiency)	Redundant 2 Qty. PWS-1K05A-1R
<b>Cooling System</b>	3x 80mm heavy duty fans with PWM fan speed control, Adjustable Air Shroud with Enhanced cooling design	4x middle fans
<b>Form Factor</b>	2U Rackmount Standard Barebone Mainstream Server; Enclosure: 437 x 89 x 648mm (17.2" x 3.5" x 25.5")	2U Rackmount; Enclosure: 437 x 89 x 650mm (17.2" x 3.5" x 25.6") Package: 686 x 376 x 947mm (27" x 14.8" x 37.3")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details





MODEL	SYS-2029P-NR48L	SSG-2029P-E1CR48H SSG-2029P-E1CR48L
<b>Processor Support</b>	Intel® Xeon® Processor Scalable Family with QPI up to 10.4 GT/s	Intel® Xeon® Processor Scalable Family with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• Corporate Database</li> <li>• Data Center</li> <li>• Database Processing &amp; Storage</li> <li>• Enterprise Server</li> <li>• HPC</li> <li>• iSCSI SAN</li> </ul>	<ul style="list-style-type: none"> <li>• Corporate Database</li> <li>• Data Center</li> <li>• Database Processing &amp; Storage</li> <li>• Enterprise Server</li> <li>• HPC</li> <li>• iSCSI SAN</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• 48x 2.5" NVMe Drive in 2U Form Factor</li> <li>• Supports Dual 205W Skylake CPU</li> <li>• 24 DIMM sockets</li> <li>• Support SIOM Card for Multiple IO Option</li> <li>• Redundant 1600W Titanium Level high-efficiency power supplies</li> </ul>	<ul style="list-style-type: none"> <li>• 48x 2.5" Drive in 2U Form Factor</li> <li>• LSI 3108 SAS3 HW RAID controller</li> <li>• Supports Dual 205W Skylake CPU</li> <li>• 24 DIMM sockets</li> <li>• Support SIOM Card for Multiple IO Option</li> <li>• Redundant 1600W Titanium Level high-efficiency power supplies</li> </ul>
<b>Serverboard</b>	SUPER® X11DSC+	SUPER® X11DSC+
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 3TB 3DS ECC, DDR4-2666MHz in 24 DIMM slots	Up to 3TB 3DS ECC, DDR4-2666MHz in 24 DIMM slots
<b>Expansion Slots</b>	3 PCI-E 3.0 x8 for Add-On-Module (AOM);	3 PCI-E 3.0 x8 for Add-On-Module (AOM);
<b>Onboard Storage Controller</b>	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10,50;	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10,50;
<b>Connectivity</b>		
<b>VGA/Audio</b>	1 VGA D-Sub Connector, 1 Aspeed AST2500 BMC;	1 VGA D-Sub Connector, 1 Aspeed AST2500 BMC;
<b>Management</b>	Intel® Node Manager; IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
<b>Drive Bays</b>	48x 2.5" hot-swap drive bay 2x 2.5" hot-swap drive bay	48x 2.5" hot-swap drive bay 2x 2.5" hot-swap drive bay
<b>Peripheral Bays</b>	N/A	N/A
<b>Power Supply</b>	Yes Redundant 2 Qty. PWS-1K62P-1R	Yes Redundant 2 Qty. PWS-1K62P-1R
<b>Cooling System</b>	5x 8cm high-performance PWM fans;	5x 8cm high-performance PWM fans;
<b>Form Factor</b>	2U 17.2" (437mm) x 3.5" (89mm) x 30" (684mm)	2U 17.2" (437mm) x 3.5" (89mm) x 30" (684mm)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## X11 SuperStorage

Expandable Storage



MODEL	SUG-6029P-E1CR24H SUG-6029P-E1CR24L	SUG-136R-N32JBF
<b>Processor Support</b>	Intel® Xeon® Processor Scalable Family with QPI up to 10.4 GT/s	N/A
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• Corporate Database</li> <li>• Data Center</li> <li>• Database Processing &amp; Storage</li> <li>• Enterprise Server</li> <li>• HPC</li> <li>• iSCSI SAN</li> </ul>	<ul style="list-style-type: none"> <li>• Capacity Tier for Cloud</li> <li>• Storage for I/O Intensive workloads</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• 24x 3.5" Drives in 2U Form Factor</li> <li>• LSI 3108 SAS3 HW RAID controller</li> <li>• Supports Dual 205W Skylake CPU</li> <li>• 24 DIMM sockets</li> <li>• Support SIOM Card for Multiple IO Option</li> <li>• Redundant 1600W Titanium Level high-efficiency power supplies</li> </ul>	<ul style="list-style-type: none"> <li>• Dual Drawer/Tray with a total of 32 NVMe SSDs</li> <li>• 4x X16 PCIe IO ports, 2x X16 PCIe slots</li> <li>• 1000W Titanium Level high-efficiency power supply</li> <li>• IPMI management with dedicated LAN</li> </ul>
<b>Serverboard</b>	SUPER● X11DSC+	SUPER●
<b>Chipset</b>	Intel® C621 chipset	N/A
<b>System Memory (Max.)*</b>	Up to 3TB 3DS ECC, DDR4-2666MHz in 24 DIMM slots	N/A
<b>Expansion Slots</b>	3 PCI-E 3.0 x8 for Add-On-Module (AOM);	2x X16 PCIe Slots
<b>Onboard Storage Controller</b>	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10,50;	N/A
<b>Connectivity</b>		4x X16 PCIe IO ports
<b>VGA/Audio</b>	1 VGA D-Sub Connector, 1 Aspeed AST2500 BMC;	N/A
<b>Management</b>	Intel® Node Manager; IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	IPMI 2.0 with Dedicated LAN
<b>Drive Bays</b>	24x 3.5" hot-swap drive bay 2x 2.5" hot-swap drive bay	32x 2.5" Drive slots
<b>Peripheral Bays</b>	N/A	N/A
<b>Power Supply</b>	Yes Redundant 2 Qty. PWS-1K62P-1R	Redundant(1+1) 1000W Titanium level high efficiency power supplies
<b>Cooling System</b>	5x 8cm high-performance PWM fans;	8x 40mm Fans, N/A
<b>Form Factor</b>	2U 17.2" (437mm) x 3.5" (89mm) x 34" (863.6mm)	1U Rackmount 17.2" x 1.75" x 31.5"; Enclosure: 437 x 44 x 800mm (17.2" x 1.75" x 31.5")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## X11 SuperStorage 2U



## X11 SuperStorage 2U



MODEL	SSG-2029P-ACR24H SSG-2029P-ACR24L	SSG-2029P-E1CR24H SSG-2029P-E1CR24L
<b>Processor Support</b>	Intel® Xeon® Processor Scalable Family – Skylake with QPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>High Performance NAS Servers</li> <li>Web Cache</li> <li>Corporate Database</li> <li>HPC</li> <li>Database Processing &amp; Storage</li> <li>Large Database</li> </ul>	<ul style="list-style-type: none"> <li>Corporate Database</li> <li>Database Processing &amp; Storage</li> <li>Enterprise Server</li> <li>HPC</li> <li>Data Center</li> <li>iSCSI SAN</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>3x LSI 3108 SAS3 HW RAID controller</li> <li>2x Optional Onboard NVMe M.2</li> <li>24x 2.5" Hot-swap SAS3 bays</li> <li>205W CPU support</li> <li>16 DIMM support</li> <li>Dual 10G BaseT</li> <li>3x LSI 3108 HW controller</li> <li>1200W Titanium Level high-efficiency power supply</li> </ul>	<ul style="list-style-type: none"> <li>LSI 3108 SAS3 HW RAID controller</li> <li>24x 2.5" Hot-swap SAS3 bays</li> <li>205W CPU support</li> <li>16 DIMM support</li> <li>Dual 10G BaseT</li> <li>Dual JBOD Expansion Ports</li> <li>1200W Titanium Level high-efficiency power supply</li> </ul>
<b>Serverboard</b>	SUPER● X11DPH-T	SUPER● X11DPH-T
<b>Chipset</b>	Intel® C624 chipset	Intel® C624 chipset
<b>System Memory (Max.)*</b>	Up to 1TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
<b>Expansion Slots</b>	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8.	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port
<b>Onboard Storage Controller</b>	3x LSI 3108 SAS3 add-on controller card	LSI 3108 SAS3 add-on controller card
<b>Connectivity</b>	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557
<b>VGA/Audio</b>	1 VGA	1 VGA
<b>Management</b>	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
<b>Drive Bays</b>	24x 2.5" hot-swap SAS3/SATA3 drive bay	24x 2.5" hot-swap SAS3/SATA3 drive bay
<b>Peripheral Bays</b>	2x 2.5" rear hot-swap drive bay.	2x 2.5" rear hot-swap drive bay.
<b>Power Supply</b>	1200W Titanium Level high-efficiency power supply	1200W Titanium Level high-efficiency power supply
<b>Cooling System</b>	3x 8cm hot-swap redundant PWM cooling fans.	3x 8cm hot-swap redundant PWM cooling fans.
<b>Form Factor</b>		2U 17.2" (437mm) x 3.5" (89mm) x 24.8" (630mm)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## X11 SuperStorage

2U

## X11 SuperStorage

2U



MODEL	SSG-6029P-E1CR12T	SSG-6029P-E1CR12H SSG-6029P-E1CR12L
<b>Processor Support</b>	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Database Processing &amp; Storage</li> <li>Database Processing &amp; Storage</li> <li>Enterprise Server</li> <li>HPC</li> <li>Data Center</li> <li>iSCSI SAN</li> </ul>	<ul style="list-style-type: none"> <li>Corporate Database</li> <li>Database Processing &amp; Storage</li> <li>Enterprise Server</li> <li>HPC</li> <li>Data Center</li> <li>iSCSI SAN</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>LSI 3108 SAS3 HW RAID controller</li> <li>2x Optional Onboard NVMe M.2</li> <li>12x 3.5" hot-swap SAS3/SATA3 drive bays</li> <li>205W CPU support</li> <li>16 DIMM support</li> <li>Dual 10G BaseT</li> <li>1200W Titanium Level high-efficiency power supply</li> </ul>	<ul style="list-style-type: none"> <li>LSI 3108 SAS3 HW RAID controller</li> <li>2x Optional Onboard NVMe M.2</li> <li>12x 3.5" hot-swap SAS3/SATA3 drive bays</li> <li>205W CPU support</li> <li>16 DIMM support</li> <li>Dual 10G BaseT</li> <li>Dual JBOD Expansion Ports</li> <li>1200W Titanium Level high-efficiency power supply</li> </ul>
<b>Serverboard</b>	SUPER● X11DPH-T	SUPER● X11DPH-T
<b>Chipset</b>	Intel® C624 chipset	Intel® C624 chipset
<b>System Memory (Max.)*</b>	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
<b>Expansion Slots</b>	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 1 occupied by controller	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port
<b>Onboard Storage Controller</b>	LSI 3108 SAS3 add-on controller card	<b>-H:</b> LSI 3108 SAS3 add-on controller card <b>-L:</b> LSI 3008 SAS3 add-on controller card
<b>Connectivity</b>	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557
<b>VGA/Audio</b>	1 VGA	1 VGA
<b>Management</b>	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
<b>Drive Bays</b>	12x 3.5" hot-swap SAS3/SATA3 drive bays	12x 3.5" hot-swap SAS3/SATA3 drive bays
<b>Peripheral Bays</b>	2x 2.5" rear hot-swap drive bays	2x 2.5" rear hot-swap drive bays
<b>Power Supply</b>	1200W Titanium Level high-efficiency power supply	1200W Titanium Level high-efficiency power supply
<b>Cooling System</b>	3x 8cm hot-swap redundant PWM cooling fans.	3x 8cm hot-swap redundant PWM cooling fans.
<b>Form Factor</b>	2U 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm)	2U 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## X11 SuperStorage

2U

## X11 UP WIO

2U 4 Full-Height PCI-E Slots



MODEL	SSG-6029P-E1CR16T	SYS-5029P-WTR
<b>Processor Support</b>	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s	Intel Xeon processor scalable family (Platinum, Gold, Silver, Bronze) Intel® Skylake-EP LGA3647 Socket
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Database Processing &amp; Storage</li> <li>Database Processing &amp; Storage</li> <li>Enterprise Server</li> <li>HPC</li> <li>Data Center</li> <li>iSCSI SAN</li> </ul>	<ul style="list-style-type: none"> <li>Database Processing &amp; Storage</li> <li>Connectivity/Storage Computer Nodes</li> <li>Data Warehouse</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>LSI 3108 SAS3 HW RAID controller</li> <li>2x Optional Onboard NVMe M.2</li> <li>16x 3.5" Hot-swap SAS3 bays</li> <li>205W CPU support</li> <li>16 DIMM support</li> <li>Dual 10G BaseT</li> <li>Redundant 1600W Titanium Level high-efficiency power supplies</li> </ul>	<ul style="list-style-type: none"> <li>8x 3.5" Hot-swap SATA3 bays w/ RAID</li> <li>2x 10 Gigabit Ethernet Ports</li> </ul>
<b>Serverboard</b>	SUPER® X11DPH-T	SUPER® X11SPW-TF
<b>Chipset</b>	Intel® C624 chipset	C622 chipset
<b>System Memory (Max.)*</b>	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	6-CH memory, 6x DDR4 ECC at 2666MHz, Up to 192GB RDIMM, 384GB LRDIMM, 768GB LRDIMM 3DS
<b>Expansion Slots</b>	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 1 occupied by controller	4x 8 PCI-E 3.0 (FHFL), 1 x8 PCI-E3.0(LP) slot
<b>Onboard Storage Controller</b>	LSI 3108 SAS3 add-on controller card	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
<b>Connectivity</b>	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557;
<b>VGA/Audio</b>	1 VGA	1 VGA, 1 Aspeed AST2500 BMC;
<b>Management</b>	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SUM; SuperDoctor® 5; Watchdog;
<b>Drive Bays</b>	16x 3.5" hot-swap SAS3/SATA3 drive bays	8x 3.5" Hot-swap SATA3 bays
<b>Peripheral Bays</b>	2x 2.5" rear hot-swap drive bays	1x slim DVD-ROM drive bay 2x USB 2.0 ports 1x COM port tray 2x USB 3.0 ports
<b>Power Supply</b>	1600W Titanium Level high-efficiency power supply	Yes Redundant 2 Qty. PWS-501P-1R
<b>Cooling System</b>	3x 8cm hot-swap redundant PWM cooling fans.	3x 8cm (7000 RPM) hot-swap PWM cooling fan;
<b>Form Factor</b>	2U 17.2" (437mm) x 3.5" (89mm) x 27.75" (705mm)	2U 17.2" (437mm) x 3.5" (89mm) x 25.5" (647mm); Enclosure: 432 x 89 x 635mm (17.2" x 3.5" x 25.6") Package: 673 x 279 x 864mm (26.5" x 11" x 34") Gross Weight: 59lbs (26.76kg) Net Weight: 34lbs (15.42kg)

\*Please check with your Supermicro sales representative and website for compatibility and configuration details



## X11 Multi I/O

3U 11 PCI-E Slots



## X11 SuperStorage

3U



MODEL	SYS-6039P-TXRT	SSG-6039P-E1CR16H SSG-6039P-E1CR16L
<b>Processor Support</b>	Intel® Xeon® Processor Scalable Family – Skylake	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Industrial Server</li> <li>Surveillance DCR</li> <li>GPU support server</li> <li>Flash Array Server</li> <li>Data Acquisitions</li> <li>Video and Music Production</li> </ul>	<ul style="list-style-type: none"> <li>Corporate Database</li> <li>Data Center</li> <li>Database Processing &amp; Storage</li> <li>Enterprise Server</li> <li>HPC</li> <li>iSCSI SAN</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>SKL+FPGA (up to 255W), 3 UPI designed for up to 11.2 GT/s</li> <li>2x PCI-E 3.0 x14, 8x PCI-E 3.0 x8, 1x PCI-E 2.0 x4 (in x8)</li> <li>8x Hot-swap 3.5" HDD Bays and 2x 5.25" Drive Bays</li> <li>2 SATA DOMs Support with Embedded Power</li> <li>Redundant (1+1) 980W Platinum level 94+%</li> </ul>	<ul style="list-style-type: none"> <li>LSI 3108 SAS3 HW RAID controller</li> <li>2x Optional Onboard NVMe M.2</li> <li>16x 3.5" SAS3/SATA3 drive bays</li> <li>205W CPU support</li> <li>16 DIMM support</li> <li>Dual 10G BaseT</li> <li>Dual JBOD Expansion Ports</li> <li>1200W Titanium Level high-efficiency power supply</li> </ul>
<b>Serverboard</b>	SUPER® X11DPX-T	SUPER® X11DPH-T
<b>Chipset</b>	Intel® C621 chipset	Intel® C624 chipset
<b>System Memory (Max.)*</b>	Up to 2TB Registered ECC, DDR4-2666MHz in 16 DIMM slots	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
<b>Expansion Slots</b>	2 PCI-E 3.0 x16 Slots (2x HSSI for CPU1/2 SKL+FPGA) 8 PCI-E 3.0 x8 Slots (6x opened slots) 1 PCI-E 3.0 x4 in x8 slot	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port
<b>Onboard Storage Controller</b>	Intel® C621 SATA3 (6Gb/s) controller	<b>-E1CR116H:</b> LSI 3108 SAS3 add-on controller card <b>-E1CR116L:</b> LSI 3008 SAS3 add-on controller card
<b>Connectivity</b>	Dual 10G baseT LAN(X550-AT2)	Dual LAN with 10GBase-T with Intel® X557
<b>VGA/Audio</b>	1 VGA, Aspeed AST2500	1 VGA
<b>Management</b>	Intel® Node Manager IPMI2.0 KVM with dedicated LAN SPM SUM SuperDoctor® 5	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
<b>Drive Bays</b>	8x 3.5" hot-swap and 2x 5.25" drive bay	16x 3.5" hot-swap SAS3/SATA3 drive bays
<b>Peripheral Bays</b>	1x slim DVD-ROM drive bay and 1x FDD bay	2x 2.5" rear hot-swap drive bays
<b>Power Supply</b>	Redundant 2 Qty. PWS-982P-1R	1200W Titanium Level high-efficiency power supply
<b>Cooling System</b>	3x middle fans & 1x rear exhaust fan	3x 8cm hot-swap redundant PWM cooling fans. 2x 80mm rear hot-swap exhaust PWM fan
<b>Form Factor</b>	3U Chassis; Enclosure: 437 x 132 x 648mm (17.2" x 5.2" x 25.5")	3U 17.2" (437mm) x 5.2" (132mm) x 25.5" (647mm)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## X11 GPU/Coprocessor Optimized

4U 8/10 GPUs



MODEL	SYS-4029GP-TXRT	SYS-4029GP-TRT SYS-4029GP-TRT2
<b>Processor Support</b>	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with UPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Artificial Intelligence</li> <li>Big Data Analytics</li> <li>High-performance computing</li> <li>Research lab/National Lab</li> <li>Astrophysics</li> <li>Business Intelligence</li> </ul>	<ul style="list-style-type: none"> <li>3D Rendering</li> <li>Astrophysics</li> <li>Chemistry</li> <li>Cloud and Virtualization needs</li> <li>Cloud Computing</li> <li>Compute Intensive Application</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>Support 8 Tesla V100 with 300GB/s NVLINK</li> <li>Support up to 205W CPU</li> <li>Support GPUDirect RDMA</li> <li>Support 8 NVMe SSD</li> <li>Optimized cooling with no GPU pre-heat</li> <li>2000W (2+2) Redundant Titanium Level Power Supplies with PMBus</li> </ul>	<ul style="list-style-type: none"> <li>24 DIMM sockets</li> <li>24x 2.5" SATA drives</li> <li>Support up to 8 GPUs</li> <li>Support up to 160W CPU</li> <li>Optimized cooling with no GPU pre-heat</li> <li>1600W (2+2) Redundant Platinum Level Power Supplies with PMBus</li> </ul>
<b>Serverboard</b>	SUPER® X11DGO-T	SUPER® X11DPG-OT-CPU
<b>Chipset</b>	Intel® C621 chipset	Intel® C622 chipset
<b>System Memory (Max.)*</b>	Up to 3TB 3DS ECC, DDR4-2666MHz in 24 DIMM slots	Up to 3TB 3DS ECC, DDR4-2666MHz in 24 DIMM slots
<b>Expansion Slots</b>	4 x PCI-E Gen3 x16 (GPU tray for GPUDirect RDMA); 2 x PCI-E Gen3 x16 (CPU tray)	<b>-TRT:</b> 8 x PCI-E Gen.3 x16 support up to 8 double width GPU 2 x PCI-E Gen.3 x8 1 x PCI-E Gen.2 x4 <b>-TRT2:</b> 11 PCI-E 3.0 x16 (FH, FL); 1 PCI-E 3.0 x8 (FH, FL, in x16 slot);
<b>Onboard Storage Controller</b>	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
<b>Connectivity</b>	N/A	Dual LAN with 10Gbase-T;
<b>VGA/Audio</b>	1 VGA, 1 Aspeed AST2500 BMC;	1 VGA, 1 Aspeed AST2500 BMC;
<b>Management</b>	IPMI2.0; SPM; SUM; SuperDoctor® 5;	Intel® Node Manager; IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; IPMI2.0; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
<b>Drive Bays</b>	16 x 2.5" Hot-wap SATA/SAS drives; Supports 8 NVMe Drives	<b>-TRT:</b> 24 x 2.5" Hot-wap SATA/SAS drives <b>-TRT2:</b> 24 x 2.5" HDD drives
<b>Peripheral Bays</b>	N.A	N.A
<b>Power Supply</b>	2000W(2+2) Redundant Power Supplies Titanium Level (96%+)	<b>-TRT:</b> 1600W(2+2) Redundant Power Supplies Platinum Level (94%+) <b>-TRT2:</b> 4 x 2000W Redundant Titanium Level high-efficiency power supplies with I2C & PMBus
<b>Cooling System</b>	8x 92mm Cooling Fans	<b>-TRT:</b> 8x 92mm RPM Hot-Swappable Cooling Fans <b>-TRT2:</b> 8x 92mm heavy duty counter-rotating fans with air shroud & optimal fan speed control
<b>Form Factor</b>	4U Rackmount; Enclosure: 447 x 178 x 805mm (17.6" x 7.0" x 31.7") Gross Weight: 135lbs (61.23kg) Net Weight: 80lbs (36.29kg)	4U Rackmount; Enclosure: 437 x 178 x 737mm (17.2" x 7.0" x 29") Gross Weight: 135lbs (61.23kg) Net Weight: 80lbs (36.29kg)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## X11 Mainstream

8x 3.5" SATA3 Drive Bays



MODEL	SYS-7049GP-TRT	SYS-7049P-TR SYS-7049P-TRT
<b>Processor Support</b>	Intel® Xeon® Processor Scalable Family with QPI up to 10.4 GT/s	Dual Socket P (LGA 3647), Intel® Xeon® processor Scalable Family; UPI up to 10.4GT/s, Support CPU TDP 45-205W
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Scientific Virtualization</li> <li>High Performance Computing</li> <li>High-End GPU workstation</li> <li>Bio-Informatics</li> <li>Machine Learning</li> <li>Computer Aided Design</li> </ul>	<ul style="list-style-type: none"> <li>Cloud and Virtualization needs</li> <li>Business Critical Applications</li> <li>Compute Intensive Storage Environments</li> <li>Database Processing &amp; Storage</li> <li>Application and data serving</li> <li>Hosting &amp; Application delivery</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>Support up to 4 GPUs/Coprocessors</li> <li>Redundant 2000W Titanium Power Supplies</li> <li>16 DIMM slots</li> <li>8 Hot-Swap 3.5" SATA/SAS Drives</li> <li>7.1 HD Audio Header</li> </ul>	<ul style="list-style-type: none"> <li>optional support 2x NVMe fixed drives</li> <li>1x M.2 support by default</li> <li>16 DIMM sockets</li> <li>2 SATA DOM support with embedded power</li> <li>Super Quiet 1280W Redundant Power high-efficiency Platinum Level (94% typical efficiency)</li> <li>Cost optimized</li> </ul> <p><b>-TR:</b> 2 Gigabit Ethernet Ports <b>-TRT:</b> 2x 10GBase-T Ports</p>
<b>Serverboard</b>	SUPER● X11DPG-QT	SUPER● X11DPi-N
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	2TB 3DS ECC, DDR4-2666 in 16 DIMM slots	Up to 2TB ECC RDIMM/LRDIMM, DDR4-2666MHz in 16 DIMM slots
<b>Expansion Slots</b>	6 PCI-E 3.0 x16 Slots; 1 PCI-E x4(in x8 slot)	Supports total 6x full height, full length add-on cards in 4x PCI-E 3.0 x16, 2x PCI-E 3.0 x8 slots
<b>Onboard Storage Controller</b>	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 8 SATA3 (6Gbps) ports; RAID 0,1,5,10
<b>Connectivity</b>	2 10GBase-T ports; Intel® X550 10GBase-T	<p><b>-TR:</b> Dual LAN RJ45 ports with Intel® X722 Gigabit Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port</p> <p><b>-TRT:</b> Dual LAN RJ45 ports with Intel® X722 10G Based-T Ethernet Controller; 1x Dedicated IPMI LAN RJ45 port</p>
<b>VGA/Audio</b>	Aspeed AST2500	Aspeed AST2500
<b>Management</b>	Intel® Node Manager; Redfish API; IPMI2.0; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5;	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
<b>Drive Bays</b>	8 Hot-swap 3.5" Drive Bays; (2x SATA3 ports default)	8x 3.5" hot-swap SATA3 drive bay
<b>Peripheral Bays</b>		USB Support: Rear: 2x3.0 + 2x2.0, Front 2x2.0 front, 1x Type A, optional 1x 5.25" DVD-ROM drive and 2x NVMe fixed drives
<b>Power Supply</b>	2000W Titanium Level efficiency redundant power supplies	2x Super Quiet 1280W Redundant Power Supply modules, high-efficiency Platinum Level (94% typical efficiency),
<b>Cooling System</b>	4 heavy duty fans, 4 exhaust fans, and 2 active heat sink w/ Optimal Fan Speed Control	2x 80mm PWM Rear Chassis Fans; 3x 80mm high-performance fan; Adjustable Air Shroud with Enhanced cooling design
<b>Form Factor</b>	4U Rackmount/Workstation 462 x 178 x 673mm (18.2" x 7.0" x 26.5")	2U Rackmount Standard Barebone Mainstream Server; Enclosure: 178 x 452 x 648mm (7" x 17.8" x 25.5")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details





## X11 SuperStorage 4U



## X11 SuperStorage 4U



MODEL	SSG-6049P-E1CR24H SSG-6049P-E1CR24L	SSG-6049P-E1CR36H SSG-6049P-E1CR36L
<b>Processor Support</b>	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Corporate Database</li> <li>Data Center</li> <li>Database Processing &amp; Storage</li> <li>Enterprise Server</li> <li>HPC</li> <li>iSCSI SAN</li> </ul>	<ul style="list-style-type: none"> <li>Corporate Database</li> <li>Data Center</li> <li>Database Processing &amp; Storage</li> <li>Enterprise Server</li> <li>HPC</li> <li>iSCSI SAN</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>LSI 3008 SAS3 IT Mode Controller</li> <li>2x Optional Onboard NVMe M.2</li> <li>24x 3.5" Hot-swap SAS3 bays</li> <li>205W CPU support</li> <li>16 DIMM support</li> <li>Dual 10G BaseT</li> <li>Dual JBOD Expansion Ports</li> <li>1200W Titanium Level high-efficiency power supply</li> </ul>	<ul style="list-style-type: none"> <li>2x Optional Onboard NVMe M.2</li> <li>36x 3.5" Hot-swap SAS3 bays</li> <li>205W CPU support</li> <li>16 DIMM support</li> <li>Dual 10G BaseT</li> <li>Dual JBOD Expansion Ports</li> <li>1200W Titanium Level high-efficiency power supply</li> </ul>
<b>Serverboard</b>	SUPER® X11DPH-T	SUPER® X11DPH-T
<b>Chipset</b>	Intel® C624 chipset	Intel® C624 chipset
<b>System Memory (Max.)*</b>	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots	Up to 2TB 3DS ECC, DDR4-2666MHz in 16 DIMM slots
<b>Expansion Slots</b>	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8. Slot 2 & 3 occupied by controller and JBOD Expansion Port
<b>Onboard Storage Controller</b>	<b>-E1CR24H:</b> LSI 3108 SAS3 add-on controller card <b>-E1CR24L:</b> LSI 3008 SAS3 add-on controller card	<b>-E1CR36H:</b> LSI 3108 SAS3 add-on controller card <b>-E1CR36L:</b> LSI 3008 SAS3 add-on controller card
<b>Connectivity</b>	Dual LAN with 10GBase-T with Intel® X557	Dual LAN with 10GBase-T with Intel® X557
<b>VGA/Audio</b>	1 VGA	1 VGA
<b>Management</b>	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, NMI, SPM, SUM, SuperDoctor® 5, Watchdog
<b>Drive Bays</b>	24x 3.5" hot-swap SAS3/SATA3 drive bays	36x 3.5" hot-swap SAS3/SATA3 drive bays
<b>Peripheral Bays</b>	2x 2.5" rear hot-swap drive bays	2x 2.5" rear hot-swap drive bays
<b>Power Supply</b>	1200W Titanium Level high-efficiency power supply	1200W Titanium Level high-efficiency power supply
<b>Cooling System</b>	3x 8cm hot-swap redundant PWM cooling fans. 2x 80mm rear hot-swap exhaust PWM fan	7x 8cm high-performance PWM fans, air shroud
<b>Form Factor</b>	4U 17.2" (437mm) x 7" (178mm) x 26" (660mm)	4U 17.2" (437mm) x 7" (178mm) x 26" (660mm)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



MODEL	SSG-6049P-E1CR60H SSG-6049P-E1CR60L	SSG-6049P-E1CR45H SSG-6049P-E1CR45L
<b>Processor Support</b>	Intel® Xeon® Processor Scalable Family with QPI up to 10.4 GT/s	Intel® Xeon® Processor Scalable Family with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• Corporate Database</li> <li>• Data Center</li> <li>• Database Processing &amp; Storage</li> <li>• Enterprise Server</li> <li>• HPC</li> <li>• iSCSI SAN</li> </ul>	<ul style="list-style-type: none"> <li>• Corporate Database</li> <li>• Data Center</li> <li>• Database Processing &amp; Storage</li> <li>• Enterprise Server</li> <li>• HPC</li> <li>• iSCSI SAN</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• 60x 3.5" Drive in 4U Form Factor</li> <li>• Supports Dual 205W Skylake CPU</li> <li>• 24 DIMM sockets</li> <li>• Support SIOM Card for Multiple IO Options</li> <li>-E1CR60H: LSI 3108 SAS3 HW RAID controller</li> <li>-E1CR60L: LSI 3008 IT Mode SAS Controller</li> </ul>	<ul style="list-style-type: none"> <li>• 45x 3.5" Drive in 4U Form Factor</li> <li>• Supports Dual 205W Skylake CPU</li> <li>• 24 DIMM sockets</li> <li>• Support SIOM Card for Multiple IO Options</li> <li>-E1CR45H: LSI 3108 SAS3 HW RAID controller</li> <li>-E1CR45L: LSI 3008 IT Mode SAS Controller</li> </ul>
<b>Serverboard</b>	SUPER® X11DSC+	SUPER® X11DSC+
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 3TB 3DS ECC, DDR4-2666MHz in 24 DIMM slots	Up to 3TB 3DS ECC, DDR4-2666MHz in 24 DIMM slots
<b>Expansion Slots</b>	3 PCI-E 3.0 x8 for Add-On-Module (AOM);	3 PCI-E 3.0 x8 for Add-On-Module (AOM);
<b>Onboard Storage Controller</b>	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10,50;	Intel® C621 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10,50;
<b>Connectivity</b>		
<b>VGA/Audio</b>	1 VGA D-Sub Connector, 1 Aspeed AST2500 BMC;	1 VGA D-Sub Connector, 1 Aspeed AST2500 BMC;
<b>Management</b>	Intel® Node Manager; IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;	Intel® Node Manager; IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; KVM with dedicated LAN; NMI; SPM; SSM; SUM; SuperDoctor® 5; Watchdog;
<b>Drive Bays</b>	60x 3.5" hot-swap SAS/SATA drive bay with SES3	45x 3.5" hot-swap SAS/SATA drive bay with SES3
<b>Peripheral Bays</b>	2x 2.5" hot-swap drive bay	2x 2.5" hot-swap drive bay
<b>Power Supply</b>	Yes Redundant 2 Qty. PWS-2K05A-1R	Yes Redundant 2 Qty. PWS-1K66P-1R
<b>Cooling System</b>	5x 80mm rear hot-swap exhaust PWM fan;	5x 80mm rear hot-swap exhaust PWM fan;
<b>Form Factor</b>	4U Rackmount 17.2" (437mm) x 7" (178mm) x 30.2" (767.08mm)	4U Rackmount 17.2" (437mm) x 7" (178mm) x 26" (660mm)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



## X11 BigTwin

Dual DP Nodes, 24 Hybrid SAS3/NVMe Drive Bays



## X11 BigTwin

Quad DP Nodes, 12 Hybrid SAS3/NVMe Drive Bays



MODEL	SYS-2029BT-DNCOR/DNR	SYS-6029BT-HNCOR
<b>Processor Support</b>	Dual Intel® Xeon® Scalable processors; dual UPI up to 10.4GT/s	Dual Intel® Xeon® Scalable processors; dual UPI up to 10.4GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Hyperscale and Hyperconverged Solutions</li> <li>Compute Intensive Application</li> <li>Enterprise Server</li> <li>Data Center</li> <li>HPC</li> </ul>	<ul style="list-style-type: none"> <li>Hyperscale and Hyperconverged Solutions</li> <li>Compute Intensive Application</li> <li>Enterprise Server</li> <li>Data Center</li> <li>HPC</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>2 Nodes in 2U</li> <li>24 DIMMs per node</li> <li>NVMe Support</li> <li>2 M.2 SATA3 or NVMe support</li> <li>3 PCI-E Add-on cards</li> <li>1 SIOM card support</li> </ul>	<ul style="list-style-type: none"> <li>4 Nodes in 2U</li> <li>24 DIMMs per node</li> <li>NVMe Support</li> <li>2 M.2 SATA3 or NVMe support</li> <li>2 Low -profile PCI-E X16 slot</li> <li>1 SIOM card support</li> </ul>
<b>Serverboard</b>	SUPER® X11DPT-B	SUPER® X11DPT-B
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node
<b>Expansion Slots</b>	2 PCI-E 3.0 x8; 1 PCI-E 3.0 x16; 1 SIOM card support Note: Must bundle with Network Card	2 PCI-E 3.0 X16 (LP), 1 SIOM card support Note: Must bundle with Network Card
<b>Onboard Storage Controller</b>	<b>-DNCOR:</b> Broadcom 3216 SAS3 (12 Gbps) controller; IT mode <b>-DNR:</b> NVMe	Broadcom 3008 SAS3 (12Gbps) controller; IT mode
<b>Connectivity</b>	SIOM Networking Card For Flexible Networking Options	SIOM Networking Card For Flexible Networking Options
<b>VGA/Audio</b>	Aspeed AST2500 BMC	Aspeed AST2500 BMC
<b>Management</b>	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog
<b>Drive Bays</b>	<b>-DNCOR:</b> 4 Hot-swap 2.5" NVMe/SAS drive bays + 8 Hot-swap 2.5" SAS drive bays per node <b>-DNCOR:</b> 12 Hot-swap 2.5" NVMe drive bays per node	3 Hot-swap 3.5" NVMe/SAS drive bays per node
<b>Peripheral Bays</b>	N/A	N/A
<b>Power Supply</b>	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus
<b>Cooling System</b>	4x 80mm heavy duty PWM fans with air shroud	4x 80mm heavy duty PWM fans with air shroud
<b>Form Factor</b>	2U (2-node) Rackmount; Enclosure: 432 x 86 x 711mm (17.6" x 3.47" x 28.75") Package: 51 x 248(2" x 9.76" x 45.28") Gross Weight: 85lbs Net Weight: 54.5lbs	2U (4-node) Rackmount; Enclosure: 447 x 88 x 765mm (17.6" x 3.47" x 30.11")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

BigTwin™ /TwinPro™ /Twin

## X11 BigTwin

Quad DP Nodes, 24 SATA Drive Bays

## X11 BigTwin

Quad DP Nodes, 24 NVMe Drive Bays



MODEL	SYS-2029BT-HTR	SYS-2029BT-HNR
<b>Processor Support</b>	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• Hyperscale and Hyperconverged Solutions</li> <li>• Compute Intensive Application</li> <li>• Enterprise Server</li> <li>• Data Center</li> <li>• HPC</li> </ul>	<ul style="list-style-type: none"> <li>• Hyperscale and Hyperconverged Solutions</li> <li>• Compute Intensive Application</li> <li>• Enterprise Server</li> <li>• Data Center</li> <li>• HPC</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• 4 Nodes in 2U</li> <li>• 24 DIMMs per node</li> <li>• SATA 3.0 (6Gbps) support</li> <li>• 2 Low-profile PCI-E slots</li> <li>• 1 SIOM card support</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Nodes in 2U</li> <li>• 24 DIMMs per node</li> <li>• NVMe Support</li> <li>• 2 M.2 SATA3 or NVMe support</li> <li>• 2 Low-profile PCI-E X16 slot</li> <li>• 1 SIOM card support</li> </ul>
<b>Serverboard</b>	SUPER● X11DPT-B	SUPER● X11DPT-B
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node
<b>Expansion Slots</b>	2 PCI-E 3.0 X16 (LP) 1 SIOM card support Note: Must bundle with Network Card	2 PCI-E 3.0 X16 (LP), 1 SIOM card support Note: Must bundle with Network Card
<b>Onboard Storage Controller</b>	Intel C621 SATA (6 Gbps) controller; RAID 0,1,5,10	NVMe
<b>Connectivity</b>	SIOM Networking Card For Flexible Networking Options	SIOM Networking Card For Flexible Networking Options
<b>VGA/Audio</b>	Aspeed AST2400 BMC	Aspeed AST2500 BMC
<b>Management</b>	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog
<b>Drive Bays</b>	6 Hot-swap 2.5" SATA drive bays per node	6 Hot-swap 2.5" NVMe drive bays per node
<b>Peripheral Bays</b>	N/A	N/A
<b>Power Supply</b>	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus
<b>Cooling System</b>	4x 80mm heavy duty PWM fans with air shroud	4x 80mm heavy duty PWM fans with air shroud
<b>Form Factor</b>	2U (4-node) Rackmount; Enclosure: 447 x 88 x 730mm (17.6" x 3.47" x 28.75") (9.76" x 24.65" x 45.28") Gross Weight: 85lbs Net Weight: 54.5lbs	2U (4-node) Rackmount; Enclosure: 447 x 88 x 730mm (17.6" x 3.47" x 28.75") (9.76" x 24.65" x 45.28") Gross Weight: 85lbs Net Weight: 54.5lbs

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

## X11 BigTwin

Quad DP Nodes, 24 Hybrid NVMe/SAS3 Drive Bays



MODEL	SYS-2029BT-HNC0R
<b>Processor Support</b>	Dual Intel® Xeon® Scalable processors; dual UPI up to 10.4GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• Hyperscale and Hyperconverged Solutions</li> <li>• Compute Intensive Application</li> <li>• Enterprise Server</li> <li>• Data Center</li> <li>• HPC</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• 4 Nodes in 2U</li> <li>• 24 DIMMs per node</li> <li>• NVMe Support</li> <li>• 2 M.2 SATA3 or NVMe support</li> <li>• 2 Low -profile PCI-E X16 slot</li> <li>• 1 SIOM card support</li> </ul>
<b>Serverboard</b>	SUPER X11DPT-B
<b>Chipset</b>	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Up to 3TB ECC 3DS RDIMM/LRDIMM, DDR4 up to 2666MHz, in 24 DIMM slots per Node
<b>Expansion Slots</b>	2 PCI-E 3.0 X16 (LP), 1 SIOM card support Note: Must bundle with Network Card
<b>Onboard Storage Controller</b>	Broadcom 3008 SAS3 (12Gbps) controller; IT mode
<b>Connectivity</b>	SIOM Networking Card For Flexible Networking Options
<b>VGA/Audio</b>	Aspeed AST2500 BMC
<b>Management</b>	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog
<b>Drive Bays</b>	4 Hot-swap 2.5" NVMe/SAS drive bays + 2 Hot-swap 2.5" SAS drive bays per node
<b>Peripheral Bays</b>	N/A
<b>Power Supply</b>	Redundant 2200W Titanium Level high-efficiency power supplies with I2C&PMbus
<b>Cooling System</b>	4x 80mm heavy duty PWM fans with air shroud
<b>Form Factor</b>	2U (4-node) Rackmount; Enclosure: 447 x 88 x 730mm (17.6" x 3.47" x 28.75") Package: 248 x 626 x 1150mm (9.76" x 24.65" x 45.28") Gross Weight: 85lbs (38.56kg) Net Weight: 54.5lbs (24.72kg)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

BigTwin™ /TwinPro™ /Twin



**X11 TwinPro<sup>2</sup>**  
Quad DP Nodes, 24x 2.5" Drive Bays

**X11 TwinPro<sup>2</sup>**  
Dual DP Nodes, 12x 3.5" Drive Bays



MODEL	SYS-2029TP-HTR/HC1R/HC0R	SYS-6029TP-HTR/HC1R/HC0R
<b>Processor Support</b>	Quad sets of Dual Intel® Xeon® Processor E5-2600 V5 product family with UPI up to 10.4 GT/s	Quad sets of Dual Intel® Xeon® Processor E5-2600 V5 product family with UPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• Compute Intensive Application</li> <li>• Data Center</li> <li>• Enterprise Server</li> <li>• Financial Analysis</li> <li>• HPC</li> <li>• Mission-Critical</li> </ul>	<ul style="list-style-type: none"> <li>• Compute Intensive Application</li> <li>• Data Center</li> <li>• Enterprise Server</li> <li>• Financial Analysis</li> <li>• HPC</li> <li>• Mission-Critical</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• 2 Low-profile PCI-E slots</li> <li>• 1 SIOM card support</li> <li>• IPMI 2.0 + KVM with dedicated LAN</li> <li>• QUAD set of 6 hot-swap 2.5" SATA/SAS drive bays</li> </ul>	<ul style="list-style-type: none"> <li>• 2 Low-profile PCI-E slots</li> <li>• 1 SIOM card support</li> <li>• IPMI 2.0 + KVM with dedicated LAN</li> <li>• QUAD set of 6 hot-swap 2.5" SATA/SAS drive bays</li> </ul>
<b>Serverboard</b>	SUPER● X11DPT-PS	SUPER● X11DPT-PS
<b>Chipset</b>	Intel® C620 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	Quad set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2666MHz in 16 DIMM slots.	Quad set of up to 2TB ECC LRDIMM, 512GB ECC RDIMM, DDR4-2666MHz in 16 DIMM slots.
<b>Expansion Slots</b>	Quad set of: 1x PCI-E 3.0 LP x16; 1x PCI-E 3.0 LP x8; 1x SIOM card support	Quad set of: 1x PCI-E 3.0 LP x16; 1x PCI-E 3.0 LP x8; 1x SIOM card support
<b>Onboard Storage Controller</b>	<p><b>-HTR:</b> Quad set of Intel® C620 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10</p> <p><b>-HC1R:</b> Quad set of LSI 3108 HW RAID 12Gbps SAS 3.0 controller for RAID 0,1,5,6,10,50 w/optional SuperCap</p> <p><b>-HC0R:</b> Quad set of LSI 3008 HW RAID 12Gbps SAS 3.0 controller for RAID 0,1,5,6,10,50 w/optional SuperCap</p>	<p><b>-HTR:</b> Quad set of Intel® C620 controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10</p> <p><b>-HC1R:</b> Quad set of Broadcom 3108 SAS3 controller for 3 SATA3 (6 Gbps) ports; RAID 0,1,5,10</p> <p><b>-HC0R:</b> Quad set of Broadcom 3008 SAS3 controller for 3 SATA3(6 Gbps)/SAS3(12Gbps) ports; RAID 0,1,5,10</p>
<b>Connectivity</b>	Quad set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card	Quad set of single IPMI 2.0 + KVM with dedicated LAN only. Need to bundle with network card
<b>VGA/Audio</b>	1 VGA, 1 Aspeed AST2500 BMC	1 VGA, 1 Aspeed AST2500 BMC
<b>Management</b>	Quad set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor®, Watch Dog	Quad set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor®, Watch Dog
<b>Drive Bays</b>	Quad set of 6x 2.5" hot-swap SATA drive bays	Quad set of 6x 2.5" hot-swap SATA drive bays
<b>Peripheral Bays</b>	N/A	null
<b>Power Supply</b>	2000W Redundant Platinum Level high-efficiency Power Supplies with I2C & PMBus	2000W Redundant Platinum Level high-efficiency Power Supplies with I2C & PMBus
<b>Cooling System</b>	4x 8cm heavy duty PWM fans with air shroud and optimal fan speed control	4x 8cm heavy duty PWM fans with air shroud and optimal fan speed control
<b>Form Factor</b>	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5"); Enclosure: 438 x 88 x 724mm (17.25" x 3.47" x 28.5") Gross Weight: 90lbs (40.82kg) Net Weight: 72lbs (32.66kg)	2U Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5"); Enclosure: 438 x 88 x 724mm (17.25" x 3.47" x 28.5") Gross Weight: 90lbs (40.82kg) Net Weight: 72lbs (32.66kg)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details



**X11 FatTwin™**  
4U 8-Node, Rear I/O  
6x 2.5" Drive Bays per Node



**X11 FatTwin™**  
4U 4-Node, Rear I/O  
8 Hot-swap 3.5" Drive Bays per Node



MODEL	SYS-F619P2-RT/RTN/RC0/RC1	SYS-F629P3-RTB/RTBN/RC0B/RC1B
<b>Processor Support</b>	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors with QPI up to 10.4 GT/s
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>Hyperscale and Hyperconverged Solutions</li> <li>Cloud Computing</li> <li>Cluster Node</li> <li>Data Center</li> <li>HPC cluster computer nodes</li> </ul>	<ul style="list-style-type: none"> <li>Hyperscale and Hyperconverged Solutions</li> <li>Cloud Computing</li> <li>Cluster Node</li> <li>Data Center</li> <li>HPC cluster computer nodes</li> <li>Hadoop &amp; Ceph storage solutions</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>1 Low-profile PCI-E x16 slot</li> <li>support up to 28 cores</li> <li>6x SATA or 4x SATA &amp; 2 NVMe</li> <li>2200W Redundant Titanium Level high-efficiency power supplies</li> <li>1 SIOM PCI-E x16 slot</li> </ul>	<ul style="list-style-type: none"> <li>6x 3.5" SATA 3 &amp; 2x NVMe U.2</li> <li>support up to 28 cores</li> <li>1200W Redundant Titanium Level high-efficiency power supplies</li> <li>1 Low Profile PCI-E x16 slot</li> <li>1 SIOM PCI-E x16 slot</li> </ul>
<b>Serverboard</b>	<b>-RT:</b> SUPER● X11DPFR-S <b>-RTN/RC0/RC1:</b> X11DPFR-SN	<b>-RTB:</b> SUPER● X11DPFR-S <b>-RTBN/RC0B/RC1B:</b> SUPER● X11DPFR-SN
<b>Chipset</b>	Intel® C621 chipset	Intel® C621 chipset
<b>System Memory (Max.)*</b>	1.5TB Registered ECC, DDR4-2666MHz in 12 DIMM slots	1.5TB Registered ECC, DDR4-2666MHz in 12 DIMM slots
<b>Expansion Slots</b>	1 PCI-E 3.0 x16 (LP); 1 PCI-E 3.0 x16 (SIOM)	1 PCI-E 3.0 x16 (LP); 1 PCI-E 3.0 x16 (SIOM)
<b>Onboard Storage Controller</b>	<b>-RT:</b> intel C620 controller with 14 SATA3 ports <b>-RTN:</b> intel C621 controller with 14 SATA3 ports <b>-RC0:</b> Broadcom 3008 12Gb/s SAS I/O Controller <b>-RC1:</b> Broadcom SAS 3108 12Gb/s HW RAID	<b>-RTB:</b> intel C621 controller with 14 SATA3 ports & Onboard NVMe <b>-RTBN:</b> intel C621 controller with 14 SATA3 ports & Onboard NVMe <b>-RC0B:</b> Broadcom 3008 12Gb/s SAS I/O Controller <b>-RC1B:</b> Broadcom SAS 3108 12Gb/s HW RAID
<b>Connectivity</b>	Single LAN with N/A	Single LAN with N/A
<b>VGA/Audio</b>	1 VGA, Aspeed AST2500	1 VGA, Aspeed AST2500
<b>Management</b>	Intel Node Manager, IPMI2.0, SuperDoctor, Watchdog, Rear UID LED.	Intel Node Manager, IPMI2.0, SuperDoctor, Watchdog, Rear UID LED.
<b>Drive Bays</b>	<b>-RT:</b> 6x 2.5" Hot Swap SATA 3 <b>-RTN:</b> 6x 2.5" Hot Swap SATA 3 or 4x 2.5" Hot Swap SATA 3 & 2 x Hot Swap NVMe U.2 <b>-RC0:</b> 6x 2.5" Hot Swap SAS 3 or 4x 2.5" Hot Swap SAS 3 & 2 x Hot Swap NVMe U.2 <b>-RC1:</b> 6x 2.5" Hot Swap SAS 3 HW RAID or 4x 2.5" Hot Swap SAS 3 HW RAID & 2 x Hot Swap NVMe U.2	<b>-RTB:</b> 8x 3.5" Hot Swap SATA 3 <b>-RTBN:</b> 8x 3.5" Hot Swap SATA 3 or 6x Hot Swap SATA 3 and 2x NVMe U.2 <b>-RC0B:</b> 8x 3.5" Hot Swap SAS 3 or 6x 3.5" Hot Swap SAS 3 & 2 x Hot Swap NVMe U.2 <b>-RC1B:</b> 8x 3.5" SAS 3 HW RAID or 6x 3.5" SAS 3 HW RAID & 2 x Hot Swap NVMe U.2
<b>Peripheral Bays</b>		
<b>Power Supply</b>	2200W high-efficiency Titanium Level redundant power supply w/ PMBus	1200W high-efficiency Titanium Level redundant power supply w/ PMBus
<b>Cooling System</b>	3x 4cm 20k RPM middle fans per node	2x 8cm 14k RPM middle fans per node
<b>Form Factor</b>	Supermicro Fat Twin 4U 8 node; Enclosure: 448 x 177 x 737mm (17.63" x 6.96" x 29") Package: 719 x 381 x 1077mm (28.3" x 15" x 42.4") Gross Weight: 200lbs (90.72kg) Net Weight: 150lbs (68.04kg)	Supermicro Fat Twin 4U 4 node; Enclosure: 448 x 177 x 737mm (17.63" x 6.96" x 29") Package: 719 x 381 x 1077mm (28.3" x 15" x 42.4") Gross Weight: 200lbs (90.72kg) Net Weight: 150lbs (68.04kg)

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

FatTwin™



## X11 SuperWorkstation

Compact High-Performance



## X11 SuperWorkstation

Compact High-Performance



MODEL	SYS-7039A-i	SYS-7049A-T
<b>Processor Support</b>	Intel® Xeon® Processor Scalable Family - Skylake Dual Socket P (LGA 3647) supported; 2 UPI up to 10.4 GT/s; CPU TDP support 205W	Intel® Xeon® Processor Scalable Family - Skylake Dual Socket P (LGA 3647) supported; 2 UPI up to 10.4 GT/s; CPU TDP support 205W
<b>Key Applications</b>	<ul style="list-style-type: none"> <li>• 2D/3D and CAD Applications</li> <li>• 3D Rendering</li> <li>• CAD/CAM/CAE</li> <li>• Digital Content Creation</li> <li>• Oil and Gas Simulation</li> <li>• Research lab/National Lab</li> </ul>	<ul style="list-style-type: none"> <li>• 2D/3D and CAD Applications</li> <li>• 3D Rendering</li> <li>• CAD/CAM/CAE</li> <li>• Digital Content Creation</li> <li>• Oil and Gas Simulation</li> <li>• Research lab/National Lab</li> </ul>
<b>Outstanding Features</b>	<ul style="list-style-type: none"> <li>• Whisper quiet and compact</li> <li>• Multiple GPU support</li> </ul>	<ul style="list-style-type: none"> <li>• Tower or 4U Rackmount System</li> <li>• Multiple GPU support</li> </ul>
<b>Serverboard</b>	SUPER● X11DAi-N	SUPER● X11DAi-N
<b>Chipset</b>	Intel® C621 chipset	Intel C621
<b>System Memory (Max.)*</b>	2TB 3DS ECC LRDIMM, DDR4-2666MHz, in 16 DIMM slots	2TB 3DS ECC LRDIMM, DDR4-2666MHz, in 16 DIMM slots
<b>Expansion Slots</b>	4 PCI-E 3.0 x16; 2 PCI-E 3.0 x8 (1x PCH slot) for Thunderbolt 3.0 AOC (optional)	4 PCI-E 3.0 x16; 2 PCI-E 3.0 x8 (1x PCH slot) for Thunderbolt 3.0 AOC (optional)
<b>Onboard Storage Controller</b>	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
<b>Connectivity</b>	Dual LAN with Lewisburg;	Dual LAN with Lewisburg;
<b>VGA/Audio</b>	1 VGA, 1 Aspeed AST2500 BMC;	1 VGA D-Sub Connector
<b>Management</b>	Intel® Node Manager; IPMI2.0; SPM; SSM; SUM; SuperDoctor® 5;	IPMI2.0
<b>Drive Bays</b>	4x 3.5" fixed drive bay, optional 4x 2.5" fixed drive bay	8x 3.5" hot-swap SAS/SATA drive bay
<b>Peripheral Bays</b>	2x 5.25 drive bays	3x 5.25 drive bays
<b>Power Supply</b>	1200W High-efficiency (Platinum level) PWS	1200W High-efficiency (Platinum level) PWS
<b>Cooling System</b>	1x 12cm rear exhaust fan; 1x 12cm (front) cooling fan	2 Super quiet PWM chassis fan & 1 Super quiet rear fan with Optimal Fan Speed Control
<b>Form Factor</b>	Mid-Tower ; Enclosure: 193 x 424 x 525mm (7.6" x 16.7" x 20.68")	4U Tower or Rackmount; Enclosure: 178 x 452 x 648mm (7" x 17.8" x 25.5")

\* Please check with your Supermicro sales representative and website for compatibility and configuration details

# 8U SuperBlade® Server Technical Specifications

Dual Intel® Xeon® Scalable Processors Product Family Supported



2-socket with Opt. 100G EDR/OPA and NVMe

Model	SBI-4129P-C2N/T3N	
Server Nodes/8U	20	
Processor	Dual Intel® Xeon® processors Scalable family with UPI up to 10.4 GT/s	
Chipset	Intel® C620 series	
Memory Support	16 DDR4-2666MHz ECC 3DS LRDIMM/RDIMM slots	
Max Memory	2TB	
Expansion & Drive Bays	<b>-C2N:</b> • 2 hot-swap 2.5" NVMe/SAS3/SATA3 drive bays • 1 M.2 NVMe/SATA slots • 4 M.2 NVMe/SATA via mezzanine card	<b>-T3N:</b> • 2 hot-swap 2.5" NVMe and 1 SATA3 drive bays or 3 SATA3 drive bays • 1 M.2 NVMe/SATA slots • 4 M.2 NVMe/SATA via mezzanine card
Storage RAID	Broadcom® 3108 RAID 0,1 via mezzanine card	Intel® PCH SATA3 RAID 0,1,5
InfiniBand / Intel® OPA	100G EDR InfiniBand / Intel® Omni-Path (Mezzanine card)	
Ethernet Interface	Dual-port 10G LAN	
Management	• IPMI 2.0 • KVM over IP	• Virtual Media over LAN • Supermicro RSD
LED Indicators	• Fault LED • Network Activity LED	• Power LED • UID / KVM LED
Dimensions (H x W x D)	1.75" x 6.5" x 23.5"	
Chassis	<b>8U:</b> • SBE-820C/J-422 • SBE-820C/J-622	• SBE-820C/J-822 • SBE-820CB/JB-422

## 8U SuperBlade® Enclosures



SBE-820C Rear View



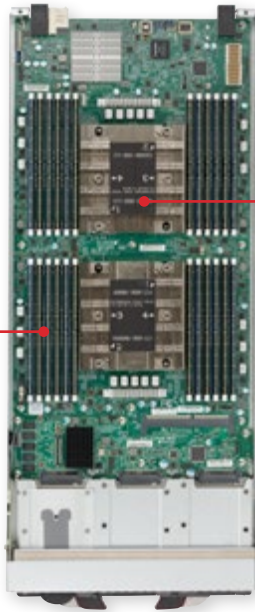
SBE-820J Rear View

8U Enclosure	SBE-820C	SBE-820J
Processor Blade	<ul style="list-style-type: none"> <li>Up to 20 hot-swappable half-height 2-socket blade servers</li> <li>Up to 10 hot-swappable full-height 4-socket blade servers</li> <li>Mixed blade servers in a single enclosure</li> </ul>	<ul style="list-style-type: none"> <li>Up to 20 hot-swappable half-height 2-socket blade servers</li> <li>Up to 10 hot-swappable full-height 4-socket blade servers</li> <li>Mixed blade servers in a single enclosure</li> </ul>
LED	Power LED, Fault LED	Power LED, Fault LED
100G Switch	Single 100G EDR InfiniBand or Intel® Omni-Path Architecture switch	Up to 2 hot-swappable 25G Ethernet switches
Ethernet Switch	Up to 2 hot-swappable 10G/1G Ethernet switches	Up to 2 hot-swappable 10G/1G Ethernet switches
Management	Single CMM for remote system management with software (management module is not included in the enclosure)	Up to 2 hot-swappable CMMs for remote system management with software (management module is not included in the enclosure)
Available Models	<ul style="list-style-type: none"> <li><b>SBE-820C-822:</b> Enclosure with 8 hot-swappable 2200W Titanium (96% efficiency) power supplies</li> <li><b>SBE-820C-622:</b> Enclosure with 6 hot-swappable 2200W Titanium (96% efficiency) power supplies</li> <li><b>SBE-820C-422:</b> Enclosure with 4 hot-swappable 2200W Titanium (96% efficiency) power supplies</li> <li><b>SBE-820C-820D:</b> 8 hot-swappable 2000W DC power supplies</li> <li><b>SBE-820C-420D:</b> 4 hot-swappable 2000W DC power supplies</li> <li><b>SBE-820CB-422:</b> 4 hot-swappable 2200W Titanium (96% efficiency) power supplies + 4 hot-swappable 1200W BBP* modules</li> </ul>	<ul style="list-style-type: none"> <li><b>SBE-820J-822:</b> Enclosure with 8 hot-swappable 2200W Titanium (96% efficiency) power supplies</li> <li><b>SBE-820J-622:</b> Enclosure with 6 hot-swappable 2200W Titanium (96% efficiency) power supplies</li> <li><b>SBE-820J-422:</b> Enclosure with 4 hot-swappable 2200W Titanium (96% efficiency) power supplies</li> <li><b>SBE-820J-820D:</b> 8 hot-swappable 2000W DC power supplies</li> <li><b>SBE-820J-420D:</b> 4 hot-swappable 2000W DC power supplies</li> <li><b>SBE-820JB-422:</b> 4 hot-swappable 2200W Titanium (96% efficiency) power supplies + 4 hot-swappable 1200W BBP* modules</li> </ul>
Rack Unit	8U	8U
Dimensions (H x W x D)	14" x 17.6" x 32"	14" x 17.6" x 32"

SuperBlade®

# 6U SuperBlade® Server Technical Specifications

Dual Intel® Xeon® Scalable Processors Supported



Dual Intel® Xeon® Scalable processors

24 DIMM slots DDR4

2-socket with 2x 10G Ethernet and NVMe

Model	SBI-6429P-C3N/T3N	
Server Nodes/6U	14	
Processor	Dual Intel® Xeon® processors Scalable family with UPI up to 10.4 GT/s	
Chipset	Intel® C620 series	
Memory Support	24 DDR4-2666 VLP DIMM slots	
Max Memory	768GB	
Expansion & Drive Bays	<b>-C3N:</b> • 2 hot-swap 2.5" NVMe and 1 SAS3/SATA3 drive bays or 3 SAS3/SATA3 drive bays	<b>-T3N:</b> • 2 hot-swap 2.5" NVMe and 1 SATA3 drive bays or 3 SATA3 drive bays
Storage RAID	Broadcom® 3108 RAID 0,1 (Mezzanine card)	Intel® PCH SATA3 RAID 0,1,5
InfiniBand / Intel® OPA	N/A	
Ethernet Interface	Dual-port 10G	
Management	• IPMI 2.0 • KVM over IP	• Virtual Media over LAN • Supermicro RSD
LED Indicators	• Fault LED • Network Activity LED	• Power LED • UID / KVM LED
Dimensions (H x W x D)	1.2" x 9.75" x 23.5"	
Chassis	<b>6U:</b> • SBE-614E-822 • SBE-614E-622	• SBE-614E-422 • SBE-614EB-422

## 6U SuperBlade® Enclosure Supporting 14 Blade Servers



SBE-614E Front View



SBE-614E Rear View

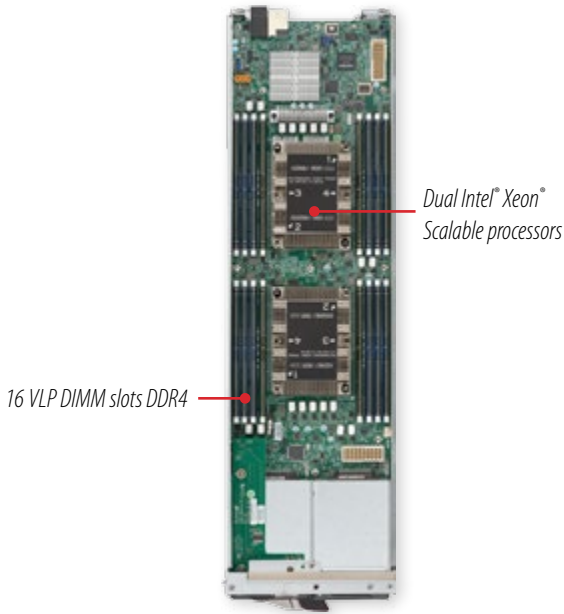
SuperBlade®

6U Enclosure	SBE-614E
Processor Blade	Up to 14 hot-swappable 1-socket or 2-socket blade servers
LED	Power LED, Fault LED
Ethernet Switch	Up to 2 hot-swappable 10G/1G switches
Management	Single CMM for remote system management with software (management module is not included in the enclosure)
Available Models	• SBE-614E-822: Enclosure with 8 hot-swappable 2200W Titanium (96% efficiency) power supplies • SBE-614E-622: Enclosure with 6 hot-swappable 2200W Titanium (96% efficiency) power supplies • SBE-614E-422: Enclosure with 4 hot-swappable 2200W Titanium (96% efficiency) power supplies • SBE-614EB-422: Enclosure with 4 hot-swappable 2200W Titanium (96% efficiency) power supplies + 4 hot-swappable 1200W BBP® modules
Rack Unit	6U
Dimensions (H x W x D)	10.5" x 17.6" x 32"



# 4U SuperBlade® Server Technical Specifications

Dual Intel® Xeon® Scalable Processors Supported



Dual Intel® Xeon® Scalable processors

16 VLP DIMM slots DDR4

2-socket with 2x 10G Ethernet and NVMe

Model	SBI-4429P-T2N	
Server Nodes/4U	14	
Processor	Dual Intel® Xeon® processors Scalable family with UPI up to 10.4 GT/s	
Chipset	Intel® C620 series	
Memory Support	16 DDR4-2666 VLP DIMM slots	
Max Memory	512GB	
Expansion & Drive Bays	<ul style="list-style-type: none"> <li>• 2 hot-swap 2.5" NVMe/SATA3 drive bays</li> <li>• 1 M.2 NVMe/SATA slots</li> </ul>	
Storage RAID	Intel® PCH SATA3 RAID 0,1	
InfiniBand / Intel® OPA	N/A	
Ethernet Interface	Dual-port 10G	
Management	<ul style="list-style-type: none"> <li>• IPMI 2.0</li> <li>• KVM over IP</li> </ul>	<ul style="list-style-type: none"> <li>• Virtual Media over LAN</li> <li>• Supermicro RSD</li> </ul>
LED Indicators	<ul style="list-style-type: none"> <li>• Fault LED</li> <li>• Network Activity LED</li> </ul>	<ul style="list-style-type: none"> <li>• Power LED</li> <li>• UID / KVM LED</li> </ul>
Dimensions (H x W x D)	1.2" x 6.5" x 23.5"	
Chassis	<b>4U:</b> <ul style="list-style-type: none"> <li>• SBE-414E-222</li> <li>• SBE-414E-422</li> </ul>	<ul style="list-style-type: none"> <li>• SBE-414EB-222</li> </ul>

## 4U SuperBlade® Enclosure Supporting 14 Blade Servers



SBE-414E Front View



SBE-414E Rear View

4U Enclosure	SBE-414E
Processor Blade	Up to 14 hot-swappable 2-socket blade servers
LED	Power LED, Fault LED
Ethernet Switch	Up to 2 hot-swappable 10G/1G switches
Management Module	Single CMM for remote system management with software (management module is not included in the enclosure)
Available Models	<ul style="list-style-type: none"> <li>• <b>SBE-414E-422:</b> Enclosure with 4 hot-swappable 2200W Titanium (96%+ efficiency) power supplies</li> <li>• <b>SBE-414E-222:</b> Enclosure with 2 hot-swappable 2200W Titanium (96%+ efficiency) power supplies</li> <li>• <b>SBE-414E-420D:</b> Enclosure with 4 hot-swappable 2000 DC power supplies</li> <li>• <b>SBE-414EB-222:</b> Enclosure with 2 hot-swappable 2200W Titanium (96% efficiency) power supplies + 2 hot-swappable 1200W BBP® modules</li> </ul>
Rack Unit	4U
Dimensions (H x W x D)	7" x 17.6" x 32"

SuperBlade®

# Ultra Series

Support up to Highest Performing 205W TDP CPUs, 24 DIMMs DDR4-2666MHz, Hyper-Speed Option  
All Hot-swap NVMe Storage Supporting RAID (optional), Integrated 100G Omni-Path Fabrics or FPGA Options

**NEW!**

Intel® Xeon®  
Processors  
Scalable  
Supported



MODEL	X11DPU	X11DPU-Z+	X11DPU-X	X11DPU-XLL
<b>Processor</b>	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 2 UPI up to 10.4 GT/s CPU1: Skylake-F CPU supported CPU2: Skylake-F CPU supported	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support Up to 255W, 3 UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support Up to 255W, 2 UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 2 UPI up to 10.4 GT/s CPU1: Skylake-F CPU supported CPU2: Skylake-F CPU supported
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C621	Intel® C621
<b>Form Factor</b>	Proprietary Ultra/WIO, 17" x 16.8" (43.18cm x 42.67cm)	Proprietary Ultra/WIO, 17" x 16.8" (43.18cm x 42.67cm)	Proprietary Ultra/WIO, 17" x 16.8" (43.18cm x 42.67cm)	Proprietary Ultra/WIO, 17" x 16.8" (43.18cm x 42.67cm)
<b>Memory Capacity &amp; Slots</b>	Up to 3TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 3TB 3DS ECC LRDIMM, in 24 DIMM slots	Up to 3TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 3TB 3DS ECC LRDIMM, in 24 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots
<b>Expansion Slots</b>	1 PCI-E 3.0 x32 Right Riser Slot, 1 PCI-E 3.0 x8 Right Riser Slot, 1 PCI-E 3.0 x40 Ultra Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s)	1 PCI-E 3.0 x32 Left Riser Slot, 1 PCI-E 3.0 x8 Center Right Riser Slot, 1 PCI-E 3.0 x40 Far Right Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s)	1 PCI-E 3.0 x32 Left Riser Slot, 1 PCI-E 3.0 x8 Center Right Riser Slot, 1 PCI-E 3.0 x40 Far Right Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s)	1 PCI-E 3.0 x32 Left Riser Slot, 1 PCI-E 3.0 x8 Center Right Riser Slot, 1 PCI-E 3.0 x40 Far Right Riser Slot, 4 PCI-E 3.0 NVMe x4 Internal Port(s)
<b>Onboard RAID Controller</b>	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; SATA3 (6 Gbps) RAID 0,1,5,10	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
<b>Onboard LAN</b>	Networking options provided via Ultra Riser	Networking options provided via Ultra Riser	Networking options provided via Ultra Riser	Networking options provided via Ultra Riser
<b>Onboard VGA</b>	2 VGA D-Sub Connector ports, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC
<b>USB Ports</b>	3 USB 3.0 ports (2 rear + 1 Type A)	3 USB 3.0 ports (2 rear + 1 header)	3 USB 3.0 ports (2 rear + 1 Type A)	3 USB 3.0 ports (2 rear + 1 Type A)
<b>Other Onboard I/O Devices</b>	2 ports SuperDOM, TPM 2.0 Header & Chip both, 1 COM Port (1 rear),	TPM 2.0 Header, 1 COM Port (1 rear), 2 ports SuperDOM	TPM 2.0 Header, 1 COM Port (1 rear), 2 ports SuperDOM	TPM 2.0 Header, 1 COM Port (1 rear), 2 ports SuperDOM
<b>Manageability</b>	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
<b>PC Health Monitoring</b>	+1.8V, +12V, +3.3V, +5V, +5V standby, 5+1 Phase-switching voltage regulator, 8-fan status, Chassis intrusion header, HT, Supports system management utility, VBAT	+12V, +3.3V, +5V, +5V standby, 3.3V standby, VBAT	+12V, +3.3V, +5V, +5V standby, 3.3V standby, Monitors CPU voltages, VBAT	+12V, +3.3V, +5V, +5V standby, VBAT
<b>Thermal Control</b>	8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control	8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control	8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control	8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control
<b>Other Features</b>	4x 8-pin GPU power connectors, Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, SDDC	Chassis intrusion detection, Chassis intrusion header, RoHS, SDDC	4x 8-pin GPU power connectors, Chassis intrusion detection, Chassis intrusion header, RoHS, SDDC	4x 8-pin GPU power connectors, Chassis intrusion detection, Chassis intrusion header, RoHS, SDDC
<b>BIOS</b>	AMI 32Mb SPI Flash ROM	AMI UEFI	AMI UEFI	AMI UEFI

\*Specifications subject to change.

# Optimized Chassis and Accessories



### SC813MFTQC-505CB

1U Short-Depth Rackmount Chassis

- SAS3 12Gbps Technology
- 500W Platinum Level (94%+) High-efficiency Power Supply
- 4x 3.5" Hot-swap SAS/SATA Drive Bays
- 1x USB/COM Port tray in Slim DVD bay (optional)
- 4x 4cm high performance cooling fans
- 1x Full-height, Full-length I/O Expansion Slot



### SC823TQ-653LPB

High Efficiency Power, Cost Effective 2U Chassis

- 650W Gold Level high-efficiency power supply
- 6x 3.5" hot-swap SAS/SATA drive bays
- 1x 5.25" peripheral drive bay
- 1x slim DVD-ROM drive (optional)
- 4x 80mm 6300 RPM Fans
- 7x low-profile, full-length I/O expansion slots
- Power switch & 6 LED indicators



### SC113MFAC2-R606CB SC113MFAC2-341CB

1U 19.98" Depth Chassis

- SAS3 12Gbps technology
- Hybrid backplane design for best supportability. Supports up to 8 port SAS3 12Gbps or 6 port SAS3 12Gbps and 2 port NVMe (determined by system and cable configuration)
- 8 hot-swap 2.5" drives bays
- Motherboard size support up to ATX 12"x10" MB
- 600W Redundant Platinum Level Power Supplies; or 340W single
- Optimize cooling with 4 40x28mm (22.5K RPM) PWM fans (optional upgrade up to 6 PWM fans)



### SC213LT-600LPB

Versatile, Cost-effective Server Chassis

- 600W Platinum Level Digital Switching high-efficiency power supplies
- 7 low-profile
- Mini-i-Pass connectivity; JBOD or headunit
- 8x 2.5" Hot-swap SAS/SATA HD Bays
- 3x 80mm high-performance, high-quality PWM fans
- Adjustable Air Shroud to Fit various Platforms
- Power Switch & 6x LED Indicators

MB Chassis	X11DPU	X11DPU-Z+	X11DPU-X	X11DPU-XLL
1U	<ul style="list-style-type: none"> <li>● SC119U-R751-T**</li> <li>● SC819U-R751-T**</li> </ul> 1U Heatsink: SNK-P0067PS	<ul style="list-style-type: none"> <li>● SC119U-R751-T**</li> <li>● SC819U-R751-T**</li> </ul> 1U Heatsink: SNK-P0067PS	<ul style="list-style-type: none"> <li>● SC119U-R751-T**</li> <li>● SC819U-R751-T**</li> </ul> 1U Heatsink: SNK-P0067PS	<ul style="list-style-type: none"> <li>● SC119U-R751-T**</li> <li>● SC819U-R751-T**</li> </ul> 1U Heatsink: SNK-P0067PS
2U	<ul style="list-style-type: none"> <li>● SC219U2-R1K02-T**</li> <li>● SC829U2-R1K02-T**</li> </ul> 2U Heatsink: SNK-P0068PS	<ul style="list-style-type: none"> <li>● SC219U2-R1K02-T**</li> <li>● SC829U2-R1K02-T**</li> </ul> 2U Heatsink: SNK-P0068PS	<ul style="list-style-type: none"> <li>● SC219U2-R1K02-T**</li> <li>● SC829U2-R1K02-T**</li> </ul> 2U Heatsink: SNK-P0068PS	<ul style="list-style-type: none"> <li>● SC219U2-R1K02-T**</li> <li>● SC829U2-R1K02-T**</li> </ul> 2U Heatsink: SNK-P0068PS
3U				
Mid/Mini-Tower				
4U/Tower				

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors

● Most Optimized Chassis for SuperServer Configuration

\* Heatsinks & Riser Cards sold separately

\*\* For integration into SuperServer® systems only, not available for sale as subsystems.

**NEW!**

Intel® Xeon® Scalable Processors Supported



**Mainstream**  
6 PCI-E 3.0, 14 SATA3 and 2 NVMe  
Dual 1GbE



**Mainstream**  
6 PCI-E 3.0, 14 SATA3 and 2 NVMe  
Dual 10GbE



**BigTwin**  
24 DIMMs and SIOM Networking



**TwinPro**  
16 DIMMs and SIOM Networking



MODEL	X11DPI-N	X11DPI-NT	X11DPT-B	X11DPT-PS
<b>Processor</b>	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 2 UPI up to 10.4 GT/s CPU1: Skylake-F CPU supported	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 2 UPI up to 10.4 GT/s CPU1: Skylake-F CPU supported	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 2 UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 165W TDP, 2 UPI up to 10.4 GT/s
<b>Chipset</b>	Intel® C621	Intel® C622	Intel® C621	Intel® C621
<b>Form Factor</b>	E-ATX, 12" x 13" (30.48cm x 33.02cm)	E-ATX, 12" x 13" (30.48cm x 33.02cm)	Proprietary Twin, 7.62" x 18.86" (19.35cm x 47.9cm)	Proprietary, 6.8" x 18.86" (17.27cm x 47.9cm)
<b>Memory Capacity &amp; Slots</b>	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots	Up to 3TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 3TB 3DS ECC LRDIMM, in 24 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots
<b>Expansion Slots</b>	4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8 <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 2260, 2280, 22110, 2 PCI-E 3.0 NVMe x4 Internal Port(s)	4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8 <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 2260, 2280, 22110, 2 PCI-E 3.0 NVMe x4 Internal Port(s)	1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot1 PCI-E 3.0 x24 Proprietary Slot (for Supermicro storage add-on card) 1 PCI-E 3.0 x16 SIOM LAN Networking Slot 2 PCI-E 3.0 x8 Proprietary Slot (For M.2 add-on card)	1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x24 riser, 1 PCI-E 3.0 x16 connector for SMC add-on cards, 1 PCI-E 3.0 x8 connector for SMC add-on cards PCI-E 3.0 x16 SIOM LAN Networking slot
<b>Onboard RAID Controller</b>	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
<b>Onboard LAN</b>	Dual LAN with GbE from C621	Dual LAN with 10GBase-T with Intel® X722 + X557	Single LAN with Networking options provided via SIOM module	Single LAN with Networking options provided via SIOM module
<b>Onboard VGA</b>	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC
<b>USB Ports</b>	4 USB 2.0 ports (2 rear + 2 headers), 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	4 USB 2.0 ports (2 rear + 2 headers), 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)	2 USB 3.0 ports (2 rear)	2 USB 3.0 ports (2 rear)
<b>Other Onboard I/O Devices</b>	2 ports SuperDOM, TPM 2.0 Header, 2 COM Ports (1 rear, 1 header)	2 ports SuperDOM, TPM 2.0 Header, 2 COM Ports (1 rear, 1 header)	TPM 2.0 Header	2 ports SuperDOM, TPM 2.0 Header
<b>Manageability</b>	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
<b>PC Health Monitoring</b>	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control
<b>Thermal Control</b>	8x 4-pin fan headers (up to 8 fans), PWM fan speed control	8x 4-pin fan headers (up to 8 fans), Pulse Width Modulated (PWM) fan connectors, PWM fan speed control	2x 4-pin fan headers (up to 2 fans), Fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors	2x 4-pin fan headers (up to 2 fans), Fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors
<b>Other Features</b>	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS
<b>BIOS</b>	AMI UEFI	AMI UEFI	AMI UEFI	AMI UEFI

\* Specifications subject to change.



# Optimized Chassis and Accessories



## SC813MFTQC-505CB

1U Short-Depth Rackmount Chassis

- SAS3 12Gbps Technology
- 500W Platinum Level (94%+) High-efficiency Power Supply
- 4x 3.5" Hot-swap SAS/SATA Drive Bays
- 1x USB/COM Port tray in Slim DVD bay (optional)
- 4x 4cm high performance cooling fans
- 1x Full-height, Full-length I/O Expansion Slot



## SC823TQ-653LPB

High Efficiency Power, Cost Effective 2U Chassis

- 650W Gold Level high-efficiency power supply
- 6x 3.5" hot-swap SAS/SATA drive bays
- 1x 5.25" peripheral drive bay
- 1x slim DVD-ROM drive (optional)
- 4x 80mm 6300 RPM Fans
- 7x low-profile, full-length I/O expansion slots
- Power switch & 6 LED indicators



## SC113MFA2-R606CB

SC113MFA2-341CB

1U 19.98" Depth Chassis

- SAS3 12Gbps technology
- Hybrid backplane design for best supportability. Supports up to 8 port SAS3 12Gbps or 6 port SAS3 12Gbps and 2 port NVMe (determined by system and cable configuration)
- 8 hot-swap 2.5" drives bays
- Motherboard size support up to ATX 12"x10" MB
- 600W Redundant Platinum Level Power Supplies; or 340W single
- Optimize cooling with 4 40x28mm (22.5K RPM) PWM fans (optional upgrade up to 6 PWM fans)



## SC213LT-600LPB

Versatile, Cost-effective Server Chassis

- 600W Platinum Level Digital Switching high-efficiency power supplies
- 7 low-profile
- Mini-i-Pass connectivity; JBOD or headunit
- 8x 2.5" Hot-swap SAS/SATA HD Bays
- 3x 80mm high-performance, high-quality PWM fans
- Adjustable Air Shroud to Fit various Platforms
- Power Switch & 6x LED Indicators

MB Chassis	X11DPi-N(T)	X11DPT-B	X11DPT-PS
1U			
2U	<ul style="list-style-type: none"> <li>● SC825TQC-R1K03LPB</li> <li>● SC213AC-R1K23LPB</li> <li>2U Heatsink: SNK-P0068PSC (Front)</li> <li>2U Heatsink: SNK-P0068PS (Rear)</li> </ul>	<ul style="list-style-type: none"> <li>● SC217BHQ+-R2K22B**</li> <li>● SC217BHD+-R2K22B**</li> <li>1U Heatsink: SNK-P0067PSM (Front)</li> <li>1U Heatsink: SNK-P0067PS (Rear)</li> </ul>	<ul style="list-style-type: none"> <li>● SC217HQ+-R2K02B**</li> <li>● SC217HD+-R2K02B**</li> <li>● SC827HQ+-R2K20B**</li> <li>● SC827HD+-R2K02B**</li> <li>1U Heatsink: SNK-P0067PSM (Front)</li> <li>1U Heatsink: SNK-P0067PS (Rear)</li> </ul>
3U			
Mid/Mini-Tower			
4U/Tower	<ul style="list-style-type: none"> <li>● SC745BAC-R1K28B2</li> <li>2U Heatsink: SNK-P0068PS</li> </ul>		

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor ES product family and Intel® Xeon® Scalable processors

● Most Optimized Chassis for SuperServer Configuration

\* Heatsinks & Riser Cards sold separately

\*\* For integration into SuperServer® systems only, not available for sale as subsystems.

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.



**Datacenter Optimized**  
*Dual 1GbE, opt. SAS3*
**Datacenter Optimized**  
*Dual 10GbE and NVMe  
Opt. SAS3*
**X11 8U SuperBlade®**  
*NVMe + SAS3 or SATA3*
**NEW!**

Intel® Xeon® Scalable Processors Supported



MODEL	X11DDW-L	X11DDW-NT	SBI-4129P-C2N SBI-4129P-T3N
<b>Processor</b>	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 2 UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 2 UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4 GT/s
<b>Chipset</b>	Intel® C621	Intel® C622	Intel® C622
<b>Form Factor</b>	12.3" x 13.4", 12.3" x 13.4" (31.24cm x 34.04cm)	12.3" x 13.4", 12.3" x 13.4" (31.24cm x 34.04cm)	1.75" x 6.5" x 23.5"
<b>Memory Capacity &amp; Slots</b>	Up to 1.5TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 1.5TB 3DS ECC LRDIMM, in 12 DIMM slots	Up to 1.5TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 1.5TB 3DS ECC LRDIMM, in 12 DIMM slots	Up to 2TB Registered ECC Memory DDR4-2666MHz in 16 DIMM slots (support Intel® Optane™ Memory NVDIMM)
<b>Expansion Slots</b>	1 PCI-E 3.0 x32 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x16 for Add-On-Module (AOM) <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 2242, 2260, 2280, 22110 <b>M.2 Key:</b> M-Key	1 PCI-E 3.0 x32 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x16 for Add-On-Module (AOM) <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 2242, 2260, 2280, 22110 <b>M.2 Key:</b> M-Key <b>U.2 Interface:</b> PCI-E 3.0 x4, 4 PCI-E 3.0 NVMe x4 Internal Port(s)	-C2N: 2 Hot-swap 2.5" NVMe/SAS3/SATA3 drive bays -T3N: 2 Hot-swap 2.5" NVMe/SATA3 and 1 hot-swap SATA3 drive bays; 1 M.2 Interface: PCI-E 3.0 x4, NVMe and SATA3 Additional 4 M.2 Interfaces on AOM supporting NVMe
<b>Onboard RAID Controller</b>	Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10	-C2N: Broadcom® 3108 RAID 0,1; Intel® C622 controller for 2 SATA3 (6Gbps) ports; RAID 0,1,5 (-C2N) -T3N: Intel® C622 controller for 3 SATA3 (6Gbps) ports; RAID 0,1,5
<b>Onboard LAN</b>	Dual LAN with GbE from C621	Dual LAN with 10Gbase-T from C622	Dual 10GbE LAN 100G Omni-Path/EDR (Mezzanine card)
<b>Onboard VGA</b>	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC	
<b>USB Ports</b>	6 USB 3.0 ports (4 rear + 2 headers)	6 USB 3.0 ports (4 rear + 2 headers)	
<b>Other Onboard I/O Devices</b>	2 ports SuperDOM, TPM 2.0 Header	2 ports SuperDOM, TPM 2.0 Header	
<b>Manageability</b>	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Up to two hot-plug management modules (CMM) providing remote KVM, Virtual Media and IPMI 2.0 functionalities; Intel® Node Manager, NMI, SPM, SUM, SSM, SuperDoctor® 5, Watch Dog; Supermicro RSD (Redfish API)
<b>PC Health Monitoring</b>	+1.8V, +12V, +3.3V, +5V, +5V standby, 5 (4-pin), 5+1 Phase-switching voltage regulator, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 5 (4-pin), 5+1 Phase-switching voltage regulator, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System temperature, VBAT	
<b>Thermal Control</b>	5x 4-pin fan headers (up to 5 fans), 5 fans with tachometer status monitoring, Dual Cooling Zone, PWM fan speed control, Thermal control tachometer fan connectors	5x 4-pin fan headers (up to 5 fans), 5 fans with tachometer status monitoring, Dual Cooling Zone, Overheat LED indication, PWM fan speed control, Thermal control tachometer fan connectors	
<b>Other Features</b>	Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID	Chassis intrusion detection, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, RoHS, Halogen Free, UID	
<b>BIOS</b>	UEFI 256Mb	UEFI 256Mb	

\* Specifications subject to change.

# Optimized Chassis and Accessories



**SC813MFTQC-505CB**  
1U Short-Depth Rackmount Chassis

- SAS3 12Gbps Technology
- 500W Platinum Level (94%+) High-efficiency Power Supply
- 4x 3.5" Hot-swap SAS/SATA Drive Bays
- 1x USB/COM Port tray in Slim DVD bay (optional)
- 4x 4cm high performance cooling fans
- 1x Full-height, Full-length I/O Expansion Slot



**SC823TQ-653LPB**  
High Efficiency Power, Cost Effective 2U Chassis

- 650W Gold Level high-efficiency power supply
- 6x 3.5" hot-swap SAS/SATA drive bays
- 1x 5.25" peripheral drive bay
- 1x slim DVD-ROM drive (optional)
- 4x 80mm 6300 RPM Fans
- 7x low-profile, full-length I/O expansion slots
- Power switch & 6 LED indicators



**SC113MFA2-R606CB**  
**SC113MFA2-341CB**  
1U 19.98" Depth Chassis

- SAS3 12Gbps technology
- Hybrid backplane design for best supportability. Supports up to 8 port SAS3 12Gbps or 6 port SAS3 12Gbps and 2 port NVMe (determined by system and cable configuration)
- 8 hot-swap 2.5" drives bays
- Motherboard size support up to ATX 12"x10" MB
- 600W Redundant Platinum Level Power Supplies; or 340W single
- Optimize cooling with 4 40x28mm (22.5K RPM) PWM fans (optional upgrade up to 6 PWM fans)



**SC213LT-600LPB**  
Versatile, Cost-effective Server Chassis

- 600W Platinum Level Digital Switching high-efficiency power supplies
- 7 low-profile
- Mini-i-Pass connectivity; JBOD or headunit
- 8x 2.5" Hot-swap SAS/SATA HD Bays
- 3x 80mm high-performance, high-quality PWM fans
- Adjustable Air Shroud to Fit various Platforms
- Power Switch & 6x LED Indicators

MB Chassis	X11DDW-L	X11DDW-NT	SBI-4129P-C2N SBI-4129P-T3N
1U	<ul style="list-style-type: none"> <li>● SC815TQC-R706WB2</li> <li>● SC116AC2-R706WB2</li> <li>● SC113AC2-R706WB2</li> </ul> 1U Heatsink: SNK-P0067PSMB	<ul style="list-style-type: none"> <li>● SC815TQC-R706WB2</li> <li>● SC116AC2-R706WB2</li> <li>● SC113AC2-R706WB2</li> </ul> 1U Heatsink: SNK-P0067PSMB	
2U	<ul style="list-style-type: none"> <li>● SC825TQC-R1K03WB</li> <li>● SC826BAC4-R1K23WB</li> </ul> 2U Heatsink: SNK-P0068PS	<ul style="list-style-type: none"> <li>● SC825TQC-R1K03WB</li> <li>● SC826BAC4-R1K23WB</li> </ul> 2U Heatsink: SNK-P0068PS	
3U			
Mid/Mini-Tower			
4U/Tower			X11 8U SuperBlade® Enclosure** 1U Heatsink: SNK-P0067PSMB (Front) 1U Heatsink: SNK-P0067PS (Rear)

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors

● Most Optimized Chassis for SuperServer Configuration

\* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

\*\* For integration into SuperServer® systems only, not available for sale as subsystems.

**NEW!**

Intel® Xeon® Scalable Processors Supported



**Resource Optimized**  
7 PCI-E 3.0 Slots,  
1GbE



**Resource Optimized**  
7 PCI-E 3.0 Slots,  
10GbE



**Resource Optimized**  
Intel® Quick Assist Technology  
10GbE & FPGA support



**GPU Serverboard**



MODEL	X11DPH-i	X11DPH-T	X11DPH-Tq	X11DGQ
<b>Processor</b>	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4 GT/s CPU1: Skylake-F CPU supported	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4 GT/s CPU1: Skylake-F CPU supported	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4 GT/s CPU1: Skylake-F CPU supported	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4 GT/s
<b>Chipset</b>	Intel® C621	Intel® C624	Intel® C628	Intel® C621
<b>Form Factor</b>	E-ATX, 12" x 13" (30.48cm x 33.02cm)	E-ATX, 12" x 13" (30.48cm x 33.02cm)	E-ATX, 12" x 13" (30.48cm x 33.02cm)	Proprietary, 12.9" x 16.9" (32.77cm x 42.93cm)
<b>Memory Capacity &amp; Slots</b>	Up to 1TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots	Up to 1.5TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 1.5TB 3DS ECC LRDIMM, in 12 DIMM slots
<b>Expansion Slots</b>	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8 <b>M.2 Interface:</b> PCI-E 3.0 x4 and PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 22110 <b>M.2 Key:</b> M-Key (RAID 0,1 support)	3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8 <b>M.2 Interface:</b> 2 PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 22110 <b>M.2 Key:</b> M-Key (RAID 0,1 support)	3 PCI-E 3.0 x16, 3 PCI-E 3.0 x8 <b>M.2 Interface:</b> 1 PCI-E 3.0 x4 and 2 PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 22110 <b>M.2 Key:</b> M-Key (RAID 0,1 support)	4 PCI-E 3.0 x16, 1 PCI-E 3.0 x32 Riser Slot <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 2242, 2260, 2280 <b>M.2 Key:</b> M-Key
<b>Onboard RAID Controller</b>	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C624 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C628 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
<b>Onboard LAN</b>	Dual LAN with 1GbE with Marvell® 88E1512	Dual LAN with 10GbE with Intel® X557	Dual LAN with 10GbE with Intel® X557	Dual LAN with 10GbE with Intel® X540 10GbE Controller
<b>Onboard VGA</b>	1 VGA port,	1 VGA port,	1 VGA port,	,
<b>USB Ports</b>	7 USB 3.0 ports (4 rear + 2 headers + 1 Type A)	7 USB 3.0 ports (4 rear + 2 headers + 1 Type A)	7 USB 3.0 ports (4 rear + 2 headers + 1 Type A)	Via proprietary riser
<b>Other Onboard I/O Devices</b>	2 ports SuperDOM, TPM 2.0 Header, 2 COM Ports (1 rear, 1 header),	2 ports SuperDOM, TPM 2.0 Header, 2 COM Ports (1 rear, 1 header),	2 ports SuperDOM, TPM 2.0 Header, 2 COM Ports (1 rear, 1 header),	TPM 2.0 Header
<b>Manageability</b>	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
<b>PC Health Monitoring</b>	+1.8V, +12V, +3.3V, +5V, +5V standby, 6+1 Phase-switching voltage regulator, 7-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System temperature, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 6+1 Phase-switching voltage regulator, 7-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System temperature, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 6+1 Phase-switching voltage regulator, 7-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System temperature, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 5+1 Phase-switching voltage regulator, Monitors CPU voltages, Supports system management utility, VBAT
<b>Thermal Control</b>	7fan headers (up to 7 fans), 7 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control	7fan headers (up to 7 fans), 7 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control	7fan headers (up to 7 fans), 7 fans with tachometer status monitoring, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control	9x 4-pin fan headers (up to 9 fans), Fan speed control, PWM fan speed control
<b>Other Features</b>	ACPI power management, Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID	ACPI power management, Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID	ACPI power management, Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID	ACPI power management, Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS
<b>BIOS</b>	AMI UEFI	AMI UEFI	AMI UEFI	UEFI 256Mb

\* Specifications subject to change.

## Optimized Chassis and Accessories



### SC813MFTQC-505CB

1U Short-Depth Rackmount Chassis

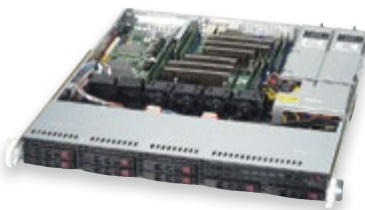
- SAS3 12Gbps Technology
- 500W Platinum Level (94%+) High-efficiency Power Supply
- 4x 3.5" Hot-swap SAS/SATA Drive Bays
- 1x USB/COM Port tray in Slim DVD bay (optional)
- 4x 4cm high performance cooling fans
- 1x Full-height, Full-length I/O Expansion Slot



### SC823TQ-653LPB

High Efficiency Power, Cost Effective 2U Chassis

- 650W Gold Level high-efficiency power supply
- 6x 3.5" hot-swap SAS/SATA drive bays
- 1x 5.25" peripheral drive bay
- 1x slim DVD-ROM drive (optional)
- 4x 80mm 6300 RPM Fans
- 7x low-profile, full-length I/O expansion slots
- Power switch & 6 LED indicators



### SC113MFAC2-R606CB

### SC113MFAC2-341CB

1U 19.98" Depth Chassis

- SAS3 12Gbps technology
- Hybrid backplane design for best supportability. Supports up to 8 port SAS3 12Gbps or 6 port SAS3 12Gbps and 2 port NVMe (determined by system and cable configuration)
- 8 hot-swap 2.5" drives bays
- Motherboard size support up to ATX 12"x10" MB
- 600W Redundant Platinum Level Power Supplies; or 340W single
- Optimize cooling with 4 40x28mm (22.5K RPM) PWM fans (optional upgrade up to 6 PWM fans)



### SC213LT-600LPB

Versatile, Cost-effective Server Chassis

- 600W Platinum Level Digital Switching high-efficiency power supplies
- 7 low-profile
- Mini-i-Pass connectivity; JBOD or headunit
- 8x 2.5" Hot-swap SAS/SATA HD Bays
- 3x 80mm high-performance, high-quality PWM fans
- Adjustable Air Shroud to Fit various Platforms
- Power Switch & 6x LED Indicators

MB Chassis	X11DPH-i	X11DPH-T(q)	X11DGQ
1U			<ul style="list-style-type: none"> <li>● SC118GQE-R2K05**</li> <li>● SC118GQP-R2K05**</li> </ul> 1U Heatsink: SNK-P0067PS
2U	<ul style="list-style-type: none"> <li>● SC826BE1C4-R1K23LPB</li> <li>● SC216BE1C4-R1K23LPB</li> <li>● SC829HE1C4-R1K62LPB</li> </ul> 2U Heatsink: SNK-P0068PSC (Front); 2U Heatsink: SNK-P0068PS (Rear)	<ul style="list-style-type: none"> <li>● SC826BE1C4-R1K23LPB</li> <li>● SC216BE1C4-R1K23LPB</li> <li>● SC829HE1C4-R1K62LPB</li> </ul> 2U Heatsink: SNK-P0068PSC (Front); 2U Heatsink: SNK-P0068PS (Rear)	
3U	<ul style="list-style-type: none"> <li>● SC836BE1C-R1K23B</li> </ul> 2U Heatsink: SNK-P0068PS	<ul style="list-style-type: none"> <li>● SC836BE1C-R1K23B</li> </ul> 2U Heatsink: SNK-P0068PS	
Mid/Mini-Tower			
4U/Tower	<ul style="list-style-type: none"> <li>● SC846BE1C-R1K23B</li> <li>● SC847BE1C4-R1K23LPB</li> </ul> 2U Heatsink: SNK-P0068PS 2U Heatsink: SNK-P0068PSC (Front); 2U Heatsink: SNK-P0068PS (Rear)	<ul style="list-style-type: none"> <li>● SC846BE1C-R1K23B</li> <li>● SC847BE1C4-R1K23LPB</li> </ul> 2U Heatsink: SNK-P0068PS 2U Heatsink: SNK-P0068PSC (Front); 2U Heatsink: SNK-P0068PS (Rear)	

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors: ●

Most Optimized Chassis for SuperServer Configuration

\* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

\*\* For integration into SuperServer® systems only, not available for sale as subsystems.



**NEW!**

Intel® Xeon® Scalable Processors Supported

**GPU Serverboard****GPU Serverboard**3 UPI, 4 GPUs  
2666MHz DDR4  
Thunderbolt AOC support**FatTwin**Optimized for HPC and Web,  
2 PCI-E / SIOM / Storage AOC slot**FatTwin**Optimized for HPC and Web,  
2 PCI-E / SIOM / Storage AOC slot

MODEL	X11DPG-SN	X11DPG-QT	X11DPFR-S	X11DPFR-SN
<b>Processor</b>	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4 GT/s CPU1: Skylake-F CPU supported CPU2: Skylake-F CPU supported	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 165W, 2 UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 165W, 2 UPI up to 10.4 GT/s
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C621	Intel® C621
<b>Form Factor</b>	Proprietary, 9.2" x 19.8" (23.37cm x 50.29cm)	Proprietary, 15.12" x 13.2" (38.4cm x 33.53cm)	Proprietary FatTwin, 6.8" x 19.436" (17.27cm x 49.37cm)	Proprietary FatTwin, 6.8" x 19.436" (17.27cm x 49.37cm)
<b>Memory Capacity &amp; Slots</b>	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots	Up to 768GB Registered ECC RDIMM, DDR4-2666MHz; Up to 1.5TB Registered ECC LRDIMM, in 12 DIMM slots	Up to 768GB Registered ECC RDIMM, DDR4-2666MHz; Up to 1.5TB Registered ECC LRDIMM, in 12 DIMM slots
<b>Expansion Slots</b>	4 PCI-E 3.0 x16, 1 PCI-E 3.0 x8, 2 PCI-E 3.0 NVMe x4 Internal Port(s)	6 PCI-E 3.0 x16, 1 PCI-E 3.0 x4 (in x8 slot) <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 22110	Or 1 PCI-E 3.0 x16 Left Riser Slot and 1 PCI-E 3.0 x16 Right Riser Slot and 1 PCI-E 3.0 x16 connector for SMC add-on cards <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 2260, 2280, 22110	1 PCI-E 3.0 x16 Left Riser Slot, 1 PCI-E 3.0 x16 Right Riser Slot, 1 PCI-E 3.0 x16 connector for SMC add-on cards 1 PCI-E 3.0 x16 SIOM LAN Networking Slot <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 2260, 2280, 22110, 4 NVMe Internal Port(s)
<b>Onboard RAID Controller</b>	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for SATA3 (6 Gbps) ports; RAID 0,1,5,10
<b>Onboard LAN</b>		Dual LAN with Intel® X550 10GBase-T Ethernet Controller	Single LAN with Networking options provided via SIOM module	Single LAN with Networking options provided via SIOM module
<b>Onboard VGA</b>	1 VGA port, Aspeed AST2500 BMC	1 VGA D-Sub Connector port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC
<b>USB Ports</b>	2 USB 3.0 ports (2 rear)	3 USB 2.0 ports (2 rear + 1 header), 4 USB 3.0 ports (2 rear + 1 header + 1 Type A)	2 USB 3.0 ports (2 rear)	2 USB 3.0 ports (2 rear)
<b>Other Onboard I/O Devices</b>	TPM 2.0 Header, 1 COM Port (1 header),	2 ports SuperDOM, 7.1 HD Audio Header, TPM 2.0 Header 2 COM Ports (1 rear, 1 header),	TPM 2.0 Header	TPM 2.0 Header
<b>Manageability</b>	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
<b>PC Health Monitoring</b>	+1.8V, +12V, +3.3V, +5V, +5V standby, 12 -fan status, Chassis intrusion header, Memory Voltages, Monitors CPU voltages, Supports system management utility, System temperature, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, 10 -fan status, 5+1 Phase-switching voltage regulator, Chassis intrusion header, HT, Supports system management utility, VBAT	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control	+1.8V, +12V, +3.3V, +5V, +5V standby, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control, VBAT
<b>Thermal Control</b>	12x 4-pin fan headers (up to 12 fans), Fan speed control, Overheat LED indication, PWM fan speed control, System level control	10x 4-pin fan headers (up to 10 fans), Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control	3x 4-pin fan headers (up to 3 fans), Fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors	3x 4-pin fan headers (up to 3 fans), Fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors
<b>Other Features</b>	ACPI power management, Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS
<b>BIOS</b>	UEFI 64Mb	AMI 64Mb SPI Flash ROM	AMI UEFI	AMI UEFI

\* Specifications subject to change.



# Optimized Chassis and Accessories



**SC813MFTQC-505CB**  
1U Short-Depth Rackmount Chassis

- SAS3 12Gbps Technology
- 500W Platinum Level (94%+) High-efficiency Power Supply
- 4x 3.5" Hot-swap SAS/SATA Drive Bays
- 1x USB/COM Port tray in Slim DVD bay (optional)
- 4x 4cm high performance cooling fans
- 1x Full-height, Full-length I/O Expansion Slot



**SC823TQ-653LPB**  
High Efficiency Power, Cost Effective 2U Chassis

- 650W Gold Level high-efficiency power supply
- 6x 3.5" hot-swap SAS/SATA drive bays
- 1x 5.25" peripheral drive bay
- 1x slim DVD-ROM drive (optional)
- 4x 80mm 6300 RPM Fans
- 7x low-profile, full-length I/O expansion slots
- Power switch & 6 LED indicators



**SC113MFAC2-R606CB**  
**SC113MFAC2-341CB**  
1U 19.98" Depth Chassis

- SAS3 12Gbps technology
- Hybrid backplane design for best supportability. Supports up to 8 port SAS3 12Gbps or 6 port SAS3 12Gbps and 2 port NVMe (determined by system and cable configuration)
- 8 hot-swap 2.5" drives bays
- Motherboard size support up to ATX 12"x10" MB
- 600W Redundant Platinum Level Power Supplies; or 340W single
- Optimize cooling with 4 40x28mm (22.5K RPM) PWM fans (optional upgrade up to 6 PWM fans)



**SC2131T-600LPB**  
Versatile, Cost-effective Server Chassis

- 600W Platinum Level Digital Switching high-efficiency power supplies
- 7 low-profile
- Mini-i-Pass connectivity; JBOD or headunit
- 8x 2.5" Hot-swap SAS/SATA HD Bays
- 3x 80mm high-performance, high-quality PWM fans
- Adjustable Air Shroud to Fit various Platforms
- Power Switch & 6x LED Indicators

MB Chassis	X11DPG-SN	X11DPG-QT	X11DPFR-S	X11DPFR-SN
1U				
2U				
3U				
Mid/Mini-Tower				
4U/Tower	CSE-218GHTS-R2K03BP3 CSE-118GHTS-R1K66BP2	● SC747BTQ-R2K04B 4U Heatsink:SNK-P0070AP54	● SCF418BC2-R2K20B** 1U Heatsink: SNK-P0067PSM (Front) 1U Heatsink: SNK-P0067PS (Rear)  ● SCF424AS2-R1K23B** 2U Heatsink: SNK-P0068PS	● SCF418BC2-R2K20B** 1U Heatsink: SNK-P0067PSM (Front) 1U Heatsink: SNK-P0067PS (Rear)  ● SCF424AS2-R1K23B** 2U Heatsink: SNK-P0068PS

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors

● Most Optimized Chassis for SuperServer Configuration

\* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

\*\* For integration into SuperServer® systems only, not available for sale as subsystems.

**NEW!**

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**Mainstream**  
ATX, M.2 NVMe, 6 PCI-E slots



**Workstation**  
Thunderbolt 3.0/NVMe  
Dual 1GbE, PCI-E 3.0 slots



**11 PCI-E Slots**  
11 PCI-E Slots  
3 UPI, 2666MHz DDR4



MODEL	X11DPL-i	X11DAi-N	X11DPX-T
<b>Processor</b>	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support Up to 140W, 2 UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 2 UPI up to 10.4 GT/s	Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4 GT/s
<b>Chipset</b>	Intel® C621	Intel® C621	Intel® C621
<b>Form Factor</b>	ATX, 12.076" x 10.15" (30.67cm x 25.78cm)	E-ATX, 12" x 13" (30.48cm x 33.02cm)	Proprietary, 15.12" x 13.2" (38.4cm x 33.53cm)
<b>Memory Capacity &amp; Slots</b>	Up to 512GB Registered ECC RDIMM, DDR4-2666MHz; Up to 1TB Registered ECC LRDIMM, in 8 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots	Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots
<b>Expansion Slots</b>	2 PCI-E 3.0 x16, 3 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 2260, 2280	4 PCI-E 3.0 x16, 2 PCI-E 3.0 x8 <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 2260, 2280, 22110 <b>M.2 Key:</b> M-Key, 2 PCI-E 3.0 NVMe x4 Internal Port(s)	2 PCI-E 3.0 x16, 8 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot) Or 4 PCI-E 3.0 x16 and 4 PCI-E 3.0 x8 and 1 PCI-E 3.0 x4 (in x8 slot) <b>M.2 Interface:</b> PCI-E 3.0 x4 <b>M.2 Form Factor:</b> 22110
<b>Onboard RAID Controller</b>	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
<b>Onboard LAN</b>	Dual LAN with Lewisburg Marvell 88E1512 PHY	Dual LAN with GbE from C621	Dual LAN with Intel® X550 10GBase-T Ethernet Controller
<b>Onboard VGA</b>	1 VGA port, Aspeed AST2500 BMC	1 VGA port, Aspeed AST2500 BMC	1 VGA D-Sub Connector port, Aspeed AST2500 BMC
<b>USB Ports</b>	4 USB 2.0 ports (2 rear + 2 headers), 3 USB 3.0 ports (2 headers + 1 Type A)	4 USB 3.0 ports (4 rear), 2 USB 3.1 ports (2 rear)	4 USB 2.0 ports (2 rear + 1 header), 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
<b>Other Onboard I/O Devices</b>	2 ports SuperDOM, TPM 2.0 Header, 1 COM Port (1 header),	2 ports SuperDOM, 7.1 HD Audio, TPM 2.0 Header, 1 COM Port (1 header), Thunderbolt header for Thunderbolt AOC support	2 ports SuperDOM, TPM 2.0 Header, 2 COM Ports (1 rear, 1 header),
<b>Manageability</b>	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI2.0, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	Intel® Node Manager, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
<b>PC Health Monitoring</b>	+12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility	+1.8V, +12V, +3.3V, +5V, +5V standby	+1.8V, +12V, +3.3V, +5V, +5V standby, 10 -fan status, 5+1 Phase-switching voltage regulator, Chassis intrusion header, HT, Supports system management utility, VBAT
<b>Thermal Control</b>	8x 4-pin fan headers (up to 8 fans), Overheat LED indication, PWM fan speed control	8x 4-pin fan headers (up to 8 fans), 8x fans with tachometer monitoring, Fan speed control, Overheat LED indication, Pulse Width Modulated (PWM) fan connectors	10x 4-pin fan headers (up to 10 fans)
<b>Other Features</b>	ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, UID, WOL	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS	Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS
<b>BIOS</b>	AMI UEFI	UEFI 128Mb	AMI 64Mb SPI Flash ROM

\* Specifications subject to change.

# Optimized Chassis and Accessories



### SC813MFTQC-505CB

1U Short-Depth Rackmount Chassis

- SAS3 12Gbps Technology
- 500W Platinum Level (94%+) High-efficiency Power Supply
- 4x 3.5" Hot-swap SAS/SATA Drive Bays
- 1x USB/COM Port tray in Slim DVD bay (optional)
- 4x 4cm high performance cooling fans
- 1x Full-height, Full-length I/O Expansion Slot



### SC823TQ-653LPB

High Efficiency Power, Cost Effective 2U Chassis

- 650W Gold Level high-efficiency power supply
- 6x 3.5" hot-swap SAS/SATA drive bays
- 1x 5.25" peripheral drive bay
- 1x slim DVD-ROM drive (optional)
- 4x 80mm 6300 RPM Fans
- 7x low-profile, full-length I/O expansion slots
- Power switch & 6 LED indicators



### SC113MFAC2-R606CB

SC113MFAC2-341CB

1U 19.98" Depth Chassis

- SAS3 12Gbps technology
- Hybrid backplane design for best supportability. Supports up to 8 port SAS3 12Gbps or 6 port SAS3 12Gbps and 2 port NVMe (determined by system and cable configuration)
- 8 hot-swap 2.5" drives bays
- Motherboard size support up to ATX 12"x10" MB
- 600W Redundant Platinum Level Power Supplies; or 340W single
- Optimize cooling with 4 40x28mm (22.5K RPM) PWM fans (optional upgrade up to 6 PWM fans)



### SC213LT-600LPB

Versatile, Cost-effective Server Chassis

- 600W Platinum Level Digital Switching high-efficiency power supplies
- 7 low-profile
- Mini-i-Pass connectivity; JBOD or headunit
- 8x 2.5" Hot-swap SAS/SATA HD Bays
- 3x 80mm high-performance, high-quality PWM fans
- Adjustable Air Shroud to Fit various Platforms
- Power Switch & 6x LED Indicators

MB Chassis	X11DPL-i	X11DAi-N	X11DPX-T
1U	<ul style="list-style-type: none"> <li>● SC813MFTQC-R608CB2</li> <li>● SC813MFTQC-505CB2</li> <li>● SC113MFAC2-R608CB</li> <li>● SC113MFAC2-605CB</li> <li>● SC514-R407C</li> </ul> 1U Heatsink:SNK-P0067PD		
2U			<ul style="list-style-type: none"> <li>● SC213XAC-R1K05LP</li> </ul> 2U Heatsink: SNK-P0068P5C (Front) 2U Heatsink: SNK-P0068PS (Rear)
3U			SC835XTQ-R982B 2U Heatsink: SNK-P0068PS
Mid/Mini-Tower		<ul style="list-style-type: none"> <li>● SC732D4-1200B</li> </ul> 4U Heatsink:SNK-P0070APS4	
4U/Tower		<ul style="list-style-type: none"> <li>● SC743AC-1200B-SQ</li> </ul> 4U Heatsink:SNK-P0070APS4	SC846XE1C-R1K23B 2U Heatsink: SNK-P0068PS

Note - When ordering please select the Revision M version of your chassis to optimally support Supermicro serverboards with the Intel® Xeon® Processor E5 product family and Intel® Xeon® Scalable processors

● Most Optimized Chassis for SuperServer Configuration

\* Heatsinks & Riser Cards sold separately

† HDD controller card is needed and enterprise level SAS & SATA HDDs are only recommended.

\*\* For integration into SuperServer® systems only, not available for sale as subsystems.



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