Embedded Solutions

Long Life Cycle · High-Efficiency · Compact Form Factor · High Performance · Worldwide Services

- Standard Form Factor and High Performance Motherboards
- Optimized Short-Depth Industrial Rackmount Platforms
- Energy Efficient Platinum and Gold Level Power Supplies
- Fully Optimized SuperServers Ready to Deploy Solutions
- Remote Management by IPMI or Intel® AMT
- Worldwide Service with Extended Product Life Cycle Support
- Low Power Intel® ATOM™, Core™ i7/i5/i3 and High Performance Intel® Xeon® Processors
- Optimized for Embedded Applications

www.supermicro.com/embedded

April 2014
Embedded Building Block Solutions

Medical Imaging

Compute Intensive Medical Workloads. Accelerate Image Processing applications with Supermicro Dual Processors and large Memory Server Solutions

Communication Infrastructure

Small Form factor SuperServer provide IT infrastructure for Data Center Edge Devices, Data Center Management Control and Network and Security Devices.

Retail Applications

Deliver User Experience and Enhanced Intelligent Retail User Experience with digital promotions and targeted advertising using Compact, lower power Supermicro Embedded Servers.

Transportation Control

Today’s public transportation control systems utilize high performance computing to handle complex traffic patterns. Traffic monitors and controllers can be found in traffic signals, license plate recognition, toll booths, e-police and several transportation management systems. These compact yet high performance systems are used for pattern recognition, matching and analysis of complex data and images. Supermicro provides a full range of IPC Rackmount solutions that deliver high-performance features that can readily handle acquisition and analysis of complex data.

Digital Security & Surveillance


Industrial Automation

Broad range of Factory and Building automation applications can rely on Supermicro building blocks to mix real-time and non-real-time OS and workloads

Cloud and Cold Storage

Supermicro servers based on Intel Atom C2000 Family of processors provide new ways to optimize cloud infrastructure through Low Power solutions and better TCO.

Digital Content Management and Distribution

Explosion in multimedia video, audio and image files on the web has created a new industry that provides live streaming, audio/video/images on demand and search analytics. To tackle this large problem, Supermicro has introduced a one-of-a-kind server solution that incorporate high-performance Dual Intel Xeon Processors, extreme I/O expansion with FH/FL 11 PCI-E Slots, 5 Hot Swap HDD and Dual GbE LAN all in a single 4U Rackmount system. The converged high density compute, storage and network server is optimized for data management, analytics and distribution.
Low-Power 4-Core Atom™ Avoton SoC Server Appliances

SYS-5018A-MLTN4
- Intel® Atom™ C2550 processor-based SoC FCBGA 1283, 4 cores, 2.4GHz, 14W (Avoton)
- Up to 4 DIMMs, 64 GB of DDR3 ECC or non ECC UDIMM up to 1600MHz
- 2x 3.5” or optional 4 x 2.5” internal SATA2 and SATA3 Drive Bays
- 1x PCI-E 2.0 x8 Slot, 4x USB2.0, VGA, COM,
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Low-Noise Power Supply
- Dimension : 16.8” (426mm) x 1.7”(43mm) x 14”(356mm)

SYS-5018A-MLHN4
- Intel® Atom™ C2550 processor-based SoC FCBGA 1283, 4 cores, 2.4GHz, 14W (Avoton)
- Up to 4 DIMMs, 64 GB of DDR3 ECC or non ECC UDIMM up to 1600MHz
- 4x 3.5” hot-swap and 2 x 2.5” internal SATA2 and SATA3 Drive Bays
- 1x PCI-E 2.0 x8 Slot, 4x USB2.0, VGA, COM,
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Low-Noise Power Supply
- Dimension : 17.2” (437mm) x 1.7”(43mm) x 19.85”(503mm)

8-Core Atom™ Rangeley Networking and Security Server Appliances

SYS-5018A-MHN4
- Intel® Atom™ C2758 processor-based SoC FCBGA 1283, 8 cores, 2.4GHz, 20W (Rangeley)
- Long Life Cycle Embedded Solution
- Support IntelQuickAssist Technology
- Up to 4 DIMMs, 64 GB of DDR3 ECC or non ECC UDIMM up to 1600MHz
- 4x 3.5” hot-swap and 2 x 2.5” internal SATA2 and SATA3 Drive Bays
- 1x PCI-E 2.0 x8 Slot, 4x USB2.0, VGA, COM,
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Low-Noise Power Supply
- Dimension : 17.2” (437mm) x 1.7”(43mm) x 19.85”(503mm)
8-Core Atom™ Avoton Embedded Server Appliances

SYS-5018A-TN4

- Intel® Atom™ C2750 processor-based SoC, FCBGA 1283
  8 cores, 2.4GHz, 20W (Avoton)
- Up to 4 DIMMs, 32 GB of DDR3 ECC SODIMM up to 1600MHz
- 2x 3.5” or optional 4 x 2.5” internal SATA2 and SATA3 Drive Bays
- 1x PCI-E 2.0 x8 Slot, 4x USB3.0, 2x USB2.0, VGA, COM,
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Gold Level Low-Noise Power Supply
- Dimension : 17.2”(437mm) x 1.7”(43mm) x 9.8”(249mm)

SYS-5018A-FTN4 (Front I/O)

- Intel® Atom™ C2758 processor-based SoC, FCBGA 1283
  8 cores, 2.4GHz, 20W (Rangeley)
- Long Life Cycle Embedded Solution
- Support Intel® QuickAssist Technology
- Up to 4 DIMMs, 32 GB of DDR3 ECC SODIMM up to 1600MHz
- 2x 3.5” or optional 4x 2.5” internal SATA2 and SATA3 Drive Bays
- 1 x PCI-E 2.0 x8 Slot, 4 x USB3.0, 2 x USB2.0, VGA, COM,
- Quad GbE LAN ports, IPMI 2.0 on Dedicated LAN port
- 200W Gold Level Low-Noise Power Supply
- Dimension : 17.2”(437mm) x 1.7”(43mm) x 9.8”(249mm)

Scalable Communications Infrastructure

SYS-5017K-N6

- Intel® Pentium® B915C (Gladden) processor (2C, 15W, 1.5 GHz, 3M)
- Intel® Communications Chipset 8903CC (Cave Creek)
- Up to 32GB DDR3 ECC 1333MHz ECC SODIMM in 4 sockets
- Intel® i350-AM4 ; Quad Port Programmable GbE LAN Bypass
- 2x Intel® i210T; Dual Port GbE LAN
- 1x PCI-E 2.0 x8 Slot, 4x USB3.0, 2x USB2.0, VGA, COM,
- 5x USB 2.0 ports (2 rear, 4 via header, 1 type A), eUSB/UDM support
- 200W Power Supply

Integrated Intel® Quick Assist Technology providing hardware acceleration for improved cryptographic and compression performance.

Intel® Data Plane Development Kit for Packet Processing
Small Form Factors Server Solutions

SYS-5017A-EP
- Intel® Atom™ N2800 Processor, FCBGA 559, 2C, 6.5W
- Intel® NM10 Express Chipset
- Up to 4GB 1066MHz DDR3 non-ECC SO-DIMMs
- 2x 3.5" or optional 2x 2.5" internal SATA2 Drive Bays
- 1x PCI 32-bit 5V on riser, 1x mini PCI-E
- Intel® 82574L; 2x GbE LAN ports
- HDMI, DisplayPort, VGA Port, 2x USB 3.0 ports
- 200W Power Supply
- Disk-on-module (DOM) power connector

SYS-5017P-TLN4F/TF
- Intel® Core® i7-3612QE or i5-3610ME Mobile ECC processor
- Intel® QM77 Express Chipset
- 2x 3.5" or optional 4x 2.5" internal SATA2 Drive Bays
- 1x PCI-E 3.0 x16 slot
- Up to 16GB 1600/1333MHz DDR3 ECC SO-DIMMs
- Intel® 82574L; 2x or 4x GbE LAN ports
- IPMI 2.0 on Dedicated LAN port
- 200W Low-noise Power Supply w/ PFC
- Disk-on-module (DOM) power connector

2U Rackmount IPC Solutions

X10SLQ
- Intel® 4th Gen. Core i3/i5/i7 processors, socket H3 (LGA 1150)
- Intel® Q87 Express Chipset support AMT 9.0, vPro Technology
- Up to 32GB DDR3 non-ECC 1600MHz UDIMM in 4 sockets
- Dual Gigabit Ethernet LAN ports, 6x SATA 3.0 (6Gb/s)
- 1x PCI-E 3.0 x16, 1x PCI-E 2.0 x4, 1x PCI-E 2.0 x1
- 1x Mini-PCI-E with mSATA support

SC825MTQ-R700LPB
- 700W Redundant Power Supply
- 3x 3.5" Hot-swap Drive Bays
- 7x Low-profile Expansion Slots
- 4x 4cm Counter-Rotating Fans
Embedded Building Block Solutions

1U Rackmount Short-Depth Dual Processor Solutions

SYS-6017R-MTLF

- Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 v2 family; QPI up to 8GT/s
- Up to 512GB ECC DDR3, up to 1866MHz; 8x DIMM sockets
- 1x PCI-E 3.0 x8 FHHL Expansion slot
- Intel® i210 Dual port Gigabit Ethernet
- IPMI 2.0 + KVM with Dedicated LAN
- 4x Hot-swap 3.5" SATA HDD Bays
- 440W High-efficiency Power Supply Platinum Level Certified

Compact design dual socket R ideal for Digital Security & Surveillance, Network and Security Appliances, Digital Content Management and Distribution, or Embedded Cloud application

4U Rackmount IPC Solutions

SYS-6047R-TXRF

- Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 v2 family; QPI up to 8GT/s
- Expansion slots: 10x PCI-E 3.0 x8, 1x PCI-E 2.0 x4 (in x8)
- Up to 512GB DDR3 1866MHz ECC Registered SDRAM; 16x DIMM sockets
- Intel® i350 Dual port Gigabit Ethernet
- 5x 3.5" Hot-swap HDD Bays
- 600W Redundant Power Supplies Platinum Level (94%)

Extreme I/O with 11 PCI-E slots ideal for use in Command and Control, Security, Test Equipment, Medical, or Industrial Automation applications

Transportation Infrastructure
Security
Telecommunication
Networking

Factory Automation
Machine Automation
Industrial Automation
Transportation Infrastructure
Atom™ Rangeley for Communication

A1SRI-2758F/2558F

- 8 Core or 4 Core C2758/2558 Rangeley SoC
- Silvermont 64-bit 22nm Tri-Gate System on Chip, VT-x
- Intel QuickAssist Technology (Encryption/Decryption, SSL, Compression/Decompression, HW accelerator)
- 4 DIMMs, 64 GB of DDR3 ECC SODIMM up to 1600MHz 2 SATA3, 4 SATA2, 4 USB 3.0
- PCIe 2.0 x8 slot
- Quad Gigabit SoC I354 Intel LAN ports
- IPMI 2.0 with KVM
- 0-60°C operating temperature
- 4 pin 12V DC and ATX power source
- Mini-ITX 6.75” x 6.75”, 7 Year Product Life

Cavecreek Network Security

X9SKV-B915/1125/1105

- B915C Pentium, E3-1125C Xeon or E3-1105C v2 Gladden CPU on board
- Cavecreek Communication PCH DH8903CC with Intel QuickAssist Technology (Encryption/Decryption, SSL, Compression/Decompression HW accelerator)
- Quad GbE I350 LAN bypass (SW programmable), total 6 GbE LAN ports
- 4 ECC SODIMMs, DDR3 up to 32 GB PCIe2.0x8 for slot 7 or slot 6 option
- 2 SATA2, 5 USB 2.0, eUSB standoff, type A, 2 COM ports
- 0°C-60°C operating temperature
- Flex ATX 9”x 7.2”, 7 Year Product Life

4th Generation Core with Three Independent Displays

X10SLV/-Q

- 4th Generation Intel Core in LGA1150 Socket
- Q87 chipset or Q87 Chipset (-Q)
- Intel HD Graphics with HDMI, DisplayPort and DVI-I video output,
- 3 independent displays
- 2 DIMMs, 16 GB SODIMM up to 1600MHz
- 4 SATA3(w mSATA), 2 USB 3.0, 6 USB 2.0, Dual GbE LAN
- 5 COM ports, one with 422/485 support
- PCIe3.0x16, Mini-PCIe with mSATA support
- 0-60°C operating temperature
- Optimized for SC504/505 1U or SC101i Chassis
- Mini-ITX 6.7” x 6.7”, 7 Year Product Life
Embedded Building Block Solutions

Dual Processor System Solutions

X9DRW-CF/CTF31
- Intel® Xeon® processor E5-2600 v2 family
- Intel® C602J chipset; QPI up to 8.0GT/s
- Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM sockets
- 1 (x32) PCI-E 3.0 (left riser slot), 1 (x16) PCI-E 3.0 (right riser slot), 1 (x16) PCI-E 3.0 (HBA Mezzanine slot)
- Intel® i350-AM2 Dual port GbE LAN
- 2x SATA3 and 2x SATA2 ports
- 8x SAS3 (12Gbps) ports via AOM

SC116AC
- SAS3 12Gb/s direct attached storage HDD backplane, 700W Redundant Power Supplies Gold Level Certified
- 10x 2.5" Hot-swap SAS / SATA Drive Bays
- 4x 4cm Counter-rotating PWM fans
- 2x Full-height I/O Expansion slots & 1x Low-profile I/O Expansion slot
- Supports maximum motherboard size 12” x 13”

Embedded and Industrial-Grade Dual Processor Solutions

<table>
<thead>
<tr>
<th>X9DRW-CF31 /CTF31</th>
<th>X9DRL-EF</th>
<th>X9DRD-EF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS3 LSI 3108 HW RAID</td>
<td>Compact ATX form factor</td>
<td>Thermally optimized design</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>X9DRD-7LN4F</th>
<th>X9DR7/E-TF+</th>
<th>X9DRX+-F</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS2 SW RAID + Quad LAN</td>
<td>SAS2 HW RAID + 10GbE</td>
<td>Maximum 11 PCIe slot expansion</td>
</tr>
</tbody>
</table>
Low Power Compact Mini ITX System Solutions

**SC101i Chassis**
- Support Mini-ITX Motherboard (6.75” x 6.75”)
- System Fan can support processors up to 45 watts
- Front accessible USB 2.0 and audio ports
- 1x internal 2.5” SATA Drive Bay
- VESA Mount bracket (MIS-D 75x75/100x100mm, MIS-E 100x200mm)
- W 7.68” x D 7.68” x H 2.68” (195 x 195 x 68 mm)
- Optional 60W or 80W power adapter

**SC504-203B Chassis**
- Rear I/O 1U Compact Short Depth 9.8” Rackmount support Mini ITX Motherboard from SoC Avoton/Rangeley up to 4th Gen Haswell Core i7 platform.
- 2x 3.5” or optional 4x 2.5” internal SATA2 Drive Bays
- 200w Gold Level power supply

**SC505-203B Chassis**
- Front I/O 1U Compact Short Depth 9.8” Rackmount support Mini ITX Motherboard from SoC Avoton/Rangeley up to 4th Gen Haswell Core i7 platform.
- 2x 3.5” or optional 4x 2.5” internal SATA2 Drive Bays
- 200w Gold Level power supply

Embedded and Industrial Server-Grade Mini ITX Solutions

<table>
<thead>
<tr>
<th>A1SAi-2750F</th>
<th>A1Sri-2758F</th>
<th>X10SLV</th>
<th>X10SLV-Q</th>
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<tbody>
<tr>
<td><img src="SYS-1017A-MP" alt="Image" /></td>
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<td><img src="SYS-1017A-MP" alt="Image" /></td>
</tr>
<tr>
<td>Intel® Atom™ C2750 8-Core Avoton SoC</td>
<td>Intel® Atom™ C2758 8-Core Rangeley SoC</td>
<td>Intel® 4th Gen. Core i7 H81 Chipset</td>
<td>Intel® 4th Gen. Core i7 Q87 Chipset</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>X10SBA/-L</th>
<th>X9SCAA/-L</th>
<th>X9SPV-M4/-3QE/-3UE</th>
<th>X9SCV-QV4</th>
</tr>
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<tr>
<td><img src="SYS-1017A-MP" alt="Image" /></td>
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</tr>
<tr>
<td>Intel® Celeron J1900 System-on-Chip</td>
<td>Intel® Atom™ N2800 NM10 Chipset</td>
<td>Intel® 3rd Gen. Core i7 QM77 Chipset</td>
<td>Intel® 2nd Gen. Core i7 QM67 Chipset</td>
</tr>
<tr>
<td>MODEL</td>
<td>A1SAi-2750F/2550F</td>
<td>A1SRi-2758F/2558F</td>
<td>X10SBA</td>
</tr>
<tr>
<td>-------------</td>
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</tr>
<tr>
<td>Processor</td>
<td>A1SAi-2750F/2550F</td>
<td>Intel® Avoton™ Processor C2750 8C/20W or C2550 4C/14W</td>
<td>Intel® Celeron® Processor J1900 Socket FBGBA1170 supported; CPU TDP 10W, 4C, 2.4GHz</td>
</tr>
<tr>
<td>Chipset/Bus</td>
<td>SoC (System on Chip)</td>
<td>SoC (System on Chip)</td>
<td>SoC (System on Chip)</td>
</tr>
<tr>
<td>Form Factor</td>
<td>Mini-ITX 6.75&quot; x 6.75&quot;</td>
<td>Mini-ITX 6.7&quot; x 6.7&quot;</td>
<td>MicroATX 9.6&quot; x 7.5&quot;</td>
</tr>
<tr>
<td>Memory Capacity &amp; Slots</td>
<td>Up to 64GB ECC SODIMM in 4 slots</td>
<td>Up to 8GB with non ECC SODIMM in 2 slots</td>
<td>Up to 64GB ECC UDIMM in 4 slots</td>
</tr>
<tr>
<td>Expansion Slots</td>
<td>1 PCI-E 2.0 x8</td>
<td>1 PCI-E 2.0 x2, 1 Mini-PCIe slot, 1 mSATA slot</td>
<td>1 PCI-E 2.0 x8</td>
</tr>
<tr>
<td>Onboard LAN</td>
<td>SoC Intel I347 Quad GbE MACs</td>
<td>Dual LAN with Intel® Ethernet Controller I210-AT</td>
<td>SoC Intel I347 Quad GbE MACs</td>
</tr>
<tr>
<td>Display Ports</td>
<td>1 VGA, Aspeed AS2400 BMC</td>
<td>1 VGA, 1 HDMI, 1 DP (DisplayPort), 1 eDP (Embedded Display Port)</td>
<td>VGA, Aspeed AST2400 BMC</td>
</tr>
<tr>
<td>USB Ports</td>
<td>4 USB 3.0 ports (2 rear + 1 via header + 1 Type A)</td>
<td>1 USB 3.0 ports (1 rear + 1 Type A)</td>
<td>7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)</td>
</tr>
<tr>
<td>Other Onboard I/O Devices</td>
<td>1 SATA DOM power connector 2 fast UART 16550 serial (1 rear, 1 header) ; TPM 1.2 Header</td>
<td>1 Sata DOM power connector 4 fast UART 16550 serial TPM 1.2 Header</td>
<td>1 SATA DOM power connector 2 fast UART 16550 serial (1 rear, 1 header) ; TPM 1.2 Header</td>
</tr>
<tr>
<td>Manageability</td>
<td>IPMI2.0 SuperDoctor 5 Watch Dog</td>
<td>SuperDoctor 5 Watch Dog</td>
<td>IPMI2.0 SuperDoctor 5 Watch Dog</td>
</tr>
<tr>
<td>Health Monitoring</td>
<td>Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V Standby, Chassis intrusion header, Supports system management utility, System level control</td>
<td>Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V Standby, Chassis intrusion header, Supports system management utility, System level control</td>
<td>Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V Standby, Chassis intrusion header, Supports system management utility, System level control</td>
</tr>
<tr>
<td>Thermal Control</td>
<td>3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors</td>
<td>2 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors</td>
<td>3 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors</td>
</tr>
<tr>
<td>Other Features</td>
<td>4-pin 12V DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, System level control, UID, WOL</td>
<td>4-pin 12V DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, System level control, UID, WOL</td>
<td>4-pin 12V DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, System level control, UID, WOL</td>
</tr>
<tr>
<td>BIOS</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
</tr>
</tbody>
</table>

* Supermicro chassis required for optimal functionality and performance

* Please check Tested Memory List on Supermicro website for compatibility
<table>
<thead>
<tr>
<th>MODEL</th>
<th>X10SLV/-Q</th>
<th>X10SLQ</th>
<th>X10SLF-F</th>
<th>X9SKV-B915</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® 4th Generation Core™ i7/115/13 series, Intel® Celeron®, Pentium® series; Socket LGA 1150 supported; CPU TDP support up to 84W TDP</td>
<td>Intel® 4th Generation Core™ i7/115/13 series, Intel® Celeron®, Pentium® series; Socket LGA 1150 supported; CPU TDP support up to 84W TDP</td>
<td>Intel® Xeon® processor E3-1200 v3 series, Intel® 4th Generation Core™ (3 series, Intel® Pentium®, Celeron®); Socket LGA 1150 supported</td>
<td>B91SC Pentium (2C/15W), E3-1125C Xeon (4C/40W) or E3-1105C2(4C/25W) Gladden FC8GA128 CPU on board</td>
</tr>
<tr>
<td>Chipset/System Bus</td>
<td>Intel® H81, Q87 for-Q</td>
<td>Intel® Q87 Express Chipset</td>
<td>Intel® C226 Chipset</td>
<td>Intel® Communications Chipset 8903</td>
</tr>
<tr>
<td>Form Factor</td>
<td>Mini-ITX 6.7” x 6.7”</td>
<td>MicroATX 9.6” x 9.6”</td>
<td>MicroATX 9.6” x 9.6”</td>
<td>Flex ATX 9.0” x 7.2”</td>
</tr>
<tr>
<td>Memory Capacity &amp; Slots</td>
<td>Up to 16GB DDR3 1600MHz Non ECC SODIMM in 2 slots</td>
<td>Up to 23GB Unbuffered non-ECC, DDR3-1600MHz in 4 DIMM slots</td>
<td>Up to 23GB Unbuffered ECC/non-ECC, DDR3-1600MHz in 4 DIMM slots</td>
<td>Up to 23GB ECC SODIMM in 4 slots</td>
</tr>
<tr>
<td>Expansion Slots</td>
<td>1 PCI-E 2.0 x16 (3.0 for-Q) Mini-PCI-E with mSATA support</td>
<td>1 PCI-E 3.0 x16 (in x16 slot), 1 PCI-E 2.0 x4, 1 PCI-E 2.0 x1, Mini-PCI-E with mSATA support</td>
<td>1 PCI-E 3.0 x8 (in x16 slot), 1 PCI-E 3.0 x8, 1 PCI-E 2.0 x4 (in x8 slot)</td>
<td>1 PCI-E 2.0 x8 Slot 7 or Slot 6 option by jumper setting</td>
</tr>
<tr>
<td>Onboard RAID Controller</td>
<td>Intel® H81 controller for 2 SATA3 (6 Gbps) ports, 2 SATA2 (3 Gbps)</td>
<td>Intel® Q87 controller for 6 SATA3 (6Gbps) ports; 0,1,5,10</td>
<td>Intel® C226 controller for 6 SATA3 (6Gbps) ports; 0,1,5,10</td>
<td>Intel® AHCI controller for 2 SATA2 (3 Gbps) ports; 2</td>
</tr>
<tr>
<td>Onboard LAN</td>
<td>Dual LAN with Intel® i217 &amp; i210AT</td>
<td>Dual LAN with Intel® i217LM &amp; i210AT</td>
<td>Dual LAN with Intel® Ethernet Controller i210AT</td>
<td>Quad LAN with Intel® Ethernet Controller i350-AM4 Dual Intel® Ethernet Controller i210-AT; Total 6 GbE LAN port</td>
</tr>
<tr>
<td>Display Ports</td>
<td>1 HDMI, 1 DP (DisplayPort), 1 DVI-I 1 Intel® HD 4600 Graphics, 3 Independent Displays (3 for-Q)</td>
<td>4 USB 3.0 ports (2 rear + 2 via header)</td>
<td>4 USB 3.0 ports (2 rear + 2 via header)</td>
<td>5 USB 2.0 ports (2 rear + 2 via headers, 1 type A)</td>
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<td>USB Ports</td>
<td>5 USB 2.0 ports (2 rear + 2 via headers + 1 Type A)</td>
<td>4 USB 2.0 ports (4 rear + 4 via headers)</td>
<td>4 USB 2.0 ports (4 rear + 4 via headers)</td>
<td>4 USB 3.0 ports (rear + 1 via header + 1 Type A)</td>
</tr>
<tr>
<td>Other Onboard I/O Devices</td>
<td>1 SATA DOM power connector ALC8888 HD Audio 5 fast UART 16550 serial COM port headers; 2 rear 3 header; PS/2 Combo mouse and keyboard, 5 Total COM Ports; TPM 1.2 Header</td>
<td>1 SATA DOM power connector Intel® HD 4600 Graphics, 7.1 HD Audio Audio 4 fast UART 16550 serial COM port headers (4 header); PS/2 Combo mouse &amp; keyboard; 1 TPM 1.2 header; COM port with RS422/485 support</td>
<td>1 SATA DOM power connector Intel® HD 4600 Graphics, 7.1 HD Audio Audio 4 fast UART 16550 serial COM port headers (4 header); PS/2 Combo mouse &amp; keyboard; 1 TPM 1.2 header; COM port with RS422/485 support</td>
<td>1 SATA DOM power connector 2 fast UART 16550 serial (1 rear, 1 header); TPM 1.2 Header Quad Port Programmable LAN Bypass</td>
</tr>
<tr>
<td>Manageability</td>
<td>SuperDoctor III, Watch Dog</td>
<td>SuperDoctor III, Watch Dog</td>
<td>SuperDoctor III, Watch Dog</td>
<td>SuperDoctor III, Watch Dog</td>
</tr>
<tr>
<td>Health Monitoring</td>
<td>Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V standby; Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control</td>
<td>Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V standby, 4-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System level control</td>
<td>Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V standby and total of 5 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +1.8V, +12V, +3.3V, +5V, +5V standby and total of 4-6 pin fans with headers for system management utility, chassis intrusion header</td>
</tr>
<tr>
<td>Thermal Control</td>
<td>3-4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors</td>
<td>Overheat LED indication, fan speed control, Thermal control tachometer fan connectors</td>
<td>Overheat LED indication, fan speed control, 5x 4-pin fan headers with tachometer monitoring</td>
<td>6 4-pin, Fan speed control, Overheat LED indication, PWM fan speed control, System level control, Thermal control tachometer fan connectors</td>
</tr>
<tr>
<td>Other Features</td>
<td>4-pin 12V DC power connector, ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, Adaptive Thermal Monitor &amp; CPU thermal trip support for processor protection, System level control, WOL, 0°C-60°C operating temperature</td>
<td>ACPI power management, ATX Power connector, Control of power-on for recovery from AC power loss, Adaptive Thermal Monitor &amp; CPU thermal trip support for processor protection, Intel® Smart Response Technology, System level control, WOL, 0°C-60°C operating temperature</td>
<td>ACPI power management, control of power-on mode for recovery from AC power loss, Adaptive Thermal Monitor &amp; CPU thermal trip support for processor protection, Node Manager support</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor &amp; CPU thermal trip support for processor protection Quad Port Programmable LAN Bypass 0°C-60°C operating temperature</td>
</tr>
<tr>
<td>BIOS</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
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### Embedded Building Block Solutions - April 2014

<table>
<thead>
<tr>
<th>Model</th>
<th>X9SCAA</th>
<th>X9SBAA-F</th>
<th>X9SPV-M4</th>
<th>X9SPV-M4-3UE</th>
<th>X9SPV-M4-3QE</th>
<th>X9SPV-LN4F-3QE</th>
<th>X9SPV-LN4F-3LE</th>
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<tbody>
<tr>
<td><strong>Processor</strong></td>
<td>Intel® Atom™ N2800 6.5W, FCBGA559</td>
<td>Intel® Atom™ S1260 (Centerton) 8.5W, FCBGA1283, VT-x</td>
<td>Intel® Core™ i7-3555SL 25W, i7-3612QE-3Q 35W, i7-3571EU(-3UE) 17W, FCBGA1023</td>
<td>Intel® Core™ i7-3612QE 35W, Quad Core (-3QE), i7-3555SL-3LE 25W, FCBGA1023</td>
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<tr>
<td><strong>Chipset/System Bus</strong></td>
<td>Mobile Intel® NM10 Express Chipset</td>
<td>System-on-Chip</td>
<td>Mobile Intel® QM77 Express Chipset</td>
<td>Mobile Intel® QM77 Express Chipset</td>
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<tr>
<td><strong>Form Factor</strong></td>
<td>Mini-ITX 6.7”W x 6.7”H</td>
<td>Mini-ITX 6.7”W x 6.7”H</td>
<td>Mini-ITX 6.7”W x 6.75”H</td>
<td>Mini-ITX 6.7”W x 6.75”H</td>
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</tr>
<tr>
<td><strong>Memory Capacity &amp; Slots</strong></td>
<td>Up to 4GB DDR3 1066 MHz non-ECC SODIMM in 2 slots</td>
<td>Up to 8GB DDR3 1600/1333 MHz ECC SODIMM in 1 slot</td>
<td>Up to 16GB DDR3 1600/1333 MHz ECC SODIMM in 2 slots</td>
<td>Up to 16GB DDR3 1600/1333 MHz ECC SODIMM in 2 slots</td>
<td></td>
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<tr>
<td><strong>Expansion Slots</strong></td>
<td>1 PCI-32bit 1 Mini-PCIE (mSATA support)</td>
<td>1 PCI-E 3.0 x 16 1 Mini-PCIE (mSATA support)</td>
<td>1 PCI-E 3.0 x 16 1 Mini-PCIE (mSATA support)</td>
<td>1 PCI-E 3.0 x 16 1 Mini-PCIE (mSATA support)</td>
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<tr>
<td><strong>Onboard RAID Controller</strong></td>
<td>Dual LAN ports with Intel® 82574L Gigabit Ethernet Controllers</td>
<td>Dual LAN ports with Intel® 835AM2 Gigabit Ethernet Controller</td>
<td>Quad LAN ports with 3 Intel® 82574L, and one Intel® 82579LM Gigabit Ethernet Controllers</td>
<td>Quad LAN ports with Intel® 82574L Gigabit Ethernet Controllers</td>
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<tr>
<td><strong>Onboard LAN</strong></td>
<td></td>
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<td></td>
<td>BMC integrated Matrox G200 or Intel® HD Graphics 4000</td>
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<tr>
<td><strong>Display Ports</strong></td>
<td>Intel® GMA3650 Graphic Controller HDMI+DisplayPort+VGA+LVDS</td>
<td>Matrox G200 VGA</td>
<td>Intel® HD 4000 Graphic Controller DVI-I + HDMI + DisplayPort + eDP</td>
<td>Intel® HD 4000 Graphic Controller</td>
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<tr>
<td><strong>USB Ports</strong></td>
<td>2 USB 3.0 ports (2 via headers) 6 USB 2.0 ports (2 rear, 4 via headers)</td>
<td>2 USB 3.0 ports (2 rear)</td>
<td>4 USB 3.0 ports (2 rear, 2 via headers) 8 USB 2.0 ports (2 rear, 6 via headers)</td>
<td>4 USB 3.0 ports by headers 6 USB 2.0 ports (4 rear + 2 via headers)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Other Onboard I/O Devices</strong></td>
<td>1 SATA DOM power connector 4 fast UART one with RS422/485 PS/2 mouse &amp; keyboard TPM header Audio Header</td>
<td>1 SATA DOM power connector 2 fast UART 16550 serial ports PS/2 mouse &amp; keyboard TPM header Audio Header</td>
<td>1 SATA DOM power connector 1 fast UART 16550 serial port PS/2 mouse &amp; keyboard TPM header Audio Header</td>
<td>1 SATA DOM power connector 2 fast UART 16550 serial ports (1 rear, 1 header) PS/2 mouse &amp; keyboard TPM header</td>
<td></td>
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<tr>
<td><strong>Manageability</strong></td>
<td>Watch Dog SuperDoctor™ III</td>
<td>Watch Dog SuperDoctor™ III</td>
<td>Watch Dog SuperDoctor™ III</td>
<td>Watch Dog SuperDoctor™ III</td>
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</tr>
<tr>
<td><strong>Health Monitoring</strong></td>
<td>One 4-pin fan headers with tachometer monitoring, supports system management utility</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of three 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of four 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of four 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header</td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Thermal Control</strong></td>
<td>Overheat LED indication, thermal control tachometer fan connectors</td>
<td>Overheat LED indication, thermal control tachometer fan connectors</td>
<td>Overheat LED indication, thermal control tachometer fan connectors</td>
<td>Overheat LED indication, thermal control tachometer fan connectors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Other Features</strong></td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, 0°C – 60°C operating temperature 4-pin 12V DC or ATX power source</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor &amp; CPU thermal trip support for processor protection, Intel® Smart Response Technology, Intel® Rapid Storage Technology, 0°C – 60°C operating temperature</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor &amp; CPU thermal trip support for processor protection, Intel® Smart Response Technology, Intel® Rapid Storage Technology, 0°C – 55°C operating temperature</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor &amp; CPU thermal trip support for processor protection, Intel® Smart Response Technology, Intel® Rapid Storage Technology, 0°C – 55°C operating temperature</td>
<td></td>
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<tr>
<td><strong>BIOS</strong></td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
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</tr>
</tbody>
</table>

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* Supermicro chassis required for optimal functionality and performance
* Please check Tested Memory List on Supermicro website for compatibility
<table>
<thead>
<tr>
<th>MODEL</th>
<th>X9SCV-Q</th>
<th>X9SCV-QV4</th>
<th>C7B75</th>
<th>C7H61/-L</th>
<th>C7Q67-H</th>
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</thead>
<tbody>
<tr>
<td>Processor</td>
<td>2nd Generation Intel® Core™ i7/15/13 &amp; Celeron® processors in FCPGA988 socket</td>
<td>2nd and 3rd Generation Intel® Core™ i7/15/13, Pentium® &amp; Celeron® processors in LGA 1155 Socket</td>
<td>2nd and 3rd Generation Intel® Core™ i7/15/13, Pentium® &amp; Celeron® processors in LGA 1155 Socket</td>
<td>2nd Generation Intel® Core™ i7/15/13, Pentium® &amp; Celeron® processors in LGA 1155 Socket</td>
<td></td>
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<tr>
<td>Form Factor</td>
<td>Mini-ITX 6.75”W x 6.75”H</td>
<td>Micro-ATX 9.6”W x 9.6”H</td>
<td>ATX 12”W x 9.6”H</td>
<td>ATX 12”W x 9.6”H</td>
<td></td>
</tr>
<tr>
<td>Memory Capacity &amp; Slots</td>
<td>Up to 16GB DDR3 1333/1066 MHz Non-ECC UDIMM, in 2 slots</td>
<td>Up to 32GB DDR3 1600/1333/1066 MHz Non-ECC UDIMM, in 4 slots</td>
<td>Up to 16GB of DDR3 1600/1333/1066 MHz Non-ECC UDIMM, in 2 slots</td>
<td>Up to 32GB DDR3 1333/1066 MHz Non-ECC UDIMM, in 4 slots</td>
<td></td>
</tr>
<tr>
<td>Thermal Control</td>
<td>Overheat LED indication, thermal control tachometer fan connectors</td>
<td>Overheat LED indication, thermal control tachometer fan connectors</td>
<td>Overheat LED indication, thermal control tachometer fan connectors</td>
<td>Overheat LED indication, thermal control tachometer fan connectors</td>
<td></td>
</tr>
<tr>
<td>Health Monitoring</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header</td>
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<tr>
<td>BIOS</td>
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<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
</tr>
</tbody>
</table>

**Low Power Consumption · High Performance**

- Intel® 3rd Gen. Core i7 vPro, 12V DC input
- Intel® 3rd Gen. Core i7 Workstation & Desktop
- Intel® 3rd Gen. Core i7 5 PCI slots, 8 SATA Ports
- 2 PCI Slot 8 SATA Ports

**Other Features**

- 12x USB 2.0 ports (6 rear, 6 via headers)
- 2x SATA 3.0 (6Gb/s) ports w/ RAID 0,1,5,10
- 4x USB 2.0 ports (header)
- Intel® HD Graphic 4000
- Intel® B75 Express Chipset
- Intel® H61 Express Chipset
- Intel® Q67 Express Chipset
- Mobile Intel® QM67 Express Chipset
- Intel® B75 Express Chipset
- Intel® H61 Express Chipset
- Intel® Q67 Express Chipset
- Embedded Building Block Solutions - April 2014

**Chipset/System Bus**

- Intel® 3rd Gen. Core i7 vPro, 12V DC input
- Intel® 3rd Gen. Core i7 Workstation & Desktop
- Intel® 3rd Gen. Core i7 5 PCI slots, 8 SATA Ports
- 2 PCI Slot 8 SATA Ports

**Form Factor**

- Dual LAN with Intel® 82579LM & 82574L Gigabit Ethernet controller
- Single LAN with Intel® 82579V Gigabit Ethernet controller
- Dual LAN with Intel® 82579LM & 82574L Gigabit Ethernet controller
- Intel® HD Graphics 4000
- Intel® HD Graphics 3000
- Intel® HD Graphics 4000
- Intel® HD Graphics 3000

**Display Ports**

- Intel® HD Graphics 4000
- Intel® HD Graphics 3000
- Intel® HD Graphics 4000
- Intel® HD Graphics 3000

**USB Ports**

- 1x SATA DOM power connector
- PPM 1.2 onboard
- 2x serial ports
- PS/2 mouse & keyboard
- Audio header
- Intel® HD Graphic 4000 DVI-D+VGA
- Intel® HD Graphic 4000 HDMI 1.4+DisplayPort+VGA
- Intel® HD Graphic 4000 HDMI 1.4 + VGA

**Other Onboard I/O Devices**

- 1x SATA DOM power connector
- TPM 1.2 onboard
- 2x Fast UART 16550 Serial ports
- (2 rear, 2 header)
- S/PDIF out & 7.1 HD audio
- TPM 1.2 onboard
- 8 Fast UART 16550 Serial ports
- (2 with RS422/485)
- S/PDIF out & 7.1 HD audio
- Intel® HD Graphic 4000 HDMI 1.4 DisplayPort & VGA

**Manageability**

- Watch Dog SuperDoctor™ III AMT 7.0, vPro
- Watch Doctor SuperDoctor™ III
- Watch Doctor SuperDoctor™ III AMT 7.0, vPro
- Watch Dog SuperDoctor™ III

**Health Monitoring**

- Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of 3 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header
- Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header
- Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header
- Monitors CPU voltages, +3.3V, +5V, +12V & +5V standby and total of 4-pin fan headers with tachometer monitoring, supports system management utility, chassis intrusion header

**Thermal Control**

- Overheat LED indication, thermal control tachometer fan connectors
- Overheat LED indication, thermal control tachometer fan connectors
- Overheat LED indication, thermal control tachometer fan connectors
- Overheat LED indication, thermal control tachometer fan connectors

**Other Features**

- ACPI power management, control of power-on mode for recovery from AC power loss, Adaptive thermal monitor & CPU thermal trip support for processor protection, Intel® Rapid Storage Technology 4-pin 12V DC power connector (-I/OV4 only) to facilitate embedded system compact design and configuration
- 0°C – 55°C operating temperature
- 0°C – 60°C operating temperature
- 0°C – 60°C operating temperature
- 0°C – 60°C operating temperature

**BIOS**

- AMI UEFI
- AMI UEFI
- AMI UEFI
- AMI UEFI

**Notes**

- Embedded Building Block Solutions - April 2014
- Intel® 3rd Gen. Core i7
- Intel® 3rd Gen. Core i7 vPro, 12V DC input
- Intel® 3rd Gen. Core i7 Workstation & Desktop
- Intel® 3rd Gen. Core i7 5 PCI slots, 8 SATA Ports
- 2 PCI Slot 8 SATA Ports

**Other Features**

- Overheat LED indication, thermal control tachometer fan connectors
- ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection
- 0°C – 60°C operating temperature
- ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection
- 0°C – 60°C operating temperature
- ACPI power management, WOL, control of power-on for recovery from AC power loss, Adaptive Thermal Monitor & CPU thermal trip support for processor protection
- 0°C – 60°C operating temperature
<table>
<thead>
<tr>
<th>MODEL</th>
<th>X9SAE-V</th>
<th>X9SRH-7F/7TF</th>
<th>X9DRW-CF31</th>
<th>X9DRL-EF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Single Intel® Xeon® E3-1200 and E3-1200 v2 series, 2nd and 3rd Generation Core™ i7/i5/i3, Pentium® and Celeron® Processor, Socket H2 (LGA 1155)</td>
<td>Single Intel® Xeon® Processor E5-2600 v2 family, up to 12-core processors; Socket R (LGA 2011) supported, TDP up to 135W</td>
<td>Dual Intel® Xeon® Processor E5-2600 v2 family, up to 12-core processors; Socket R (LGA 2011) supported; QPI up to 8.0GT/s; TDP up to 130W</td>
<td>Dual Intel® Xeon® Processor E5-2600 v2 family, up to 12 core processors; Socket R (LGA 2011) supported; QPI up to 8.0GT/s; TDP up to 135W</td>
</tr>
<tr>
<td>Chipset/System Bus</td>
<td>Intel® C216 Express PCH Chipset</td>
<td>Intel® C602J Chipset</td>
<td>Intel® C602J Chipset</td>
<td>Intel® C602J Chipset</td>
</tr>
<tr>
<td>Form Factor</td>
<td>ATX 12”W x 9.6”H</td>
<td>ATX 12”W x 9.6”H</td>
<td>ATX 12”W x 9.6”H</td>
<td>ATX 12”W x 10”H</td>
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<tr>
<td>Memory Capacity &amp; Slots</td>
<td>Up to 32GB DDR3 ECC 1600MHz ECC/non-ECC UDIMMs in 4 sockets</td>
<td>Up to 256GB ECC RDIMM / LRDIMM or 64GB ECC / non-ECC UDIMMs, DDR3-1600MHz, in 8 DIMM slots</td>
<td>Up to 1TB ECC LRDIMM, 512GB ECC RDIMM, or 128GB ECC/Cron-ECC UDIMM; DDR3 up to 1666MHz, in 16 DIMM slots</td>
<td>Up to 512GB ECC LRDIMM, 256GB ECC RDIMM, or 64GB ECC non-ECC UDIMM; DDR3 up to 1666MHz, in 8 DIMM slots</td>
</tr>
<tr>
<td>Expansion Slots</td>
<td>2 PCI-E 3.0 x8 (in x16) 2 PCI-E 3.0 x1 1 PCI-E 2.0 x1 1 PCI 32-bit</td>
<td>1 PCI-E 3.0 x16 1 PCI-E 3.0 x8 (in x16) 3 PCI 32-bit (or -7F)</td>
<td>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 Storage AOM</td>
<td>2 PCI-E 3.0 x8 1 PCI-E 2.0 x4 (in x8 slot) 1 PCI-E 2.0 x1</td>
</tr>
<tr>
<td>Onboard RAID Controller</td>
<td>Intel® C216 AHCI controller for 2 SATA3(6Gb/s) ports; RAID 0, 1 4 SATA2(3Gb/s) ports; RAID 0, 1, 5, 0, 10</td>
<td>LSI® 2308 controller with 8 SAS2 (6Gb/s) ports; Software RAID 0,1,10 Intel® AHCI controller for 4 SATA2 (3Gb/s) ports; RAID 0,1,5,10 and 2 SATA3 (6Gb/s); RAID 0,1</td>
<td>Intel® C602J AHCI controller for 2 SATA3 (6Gb/s) ports + 2 SATA2 (3Gb/s) ports; RAID 0,1,10; 8 SAS 3.0 (12Gb/s) ports via AOM-S3108-H8 Add-on-Module; RAID 0, 1,5,10,50,60</td>
<td>Intel® C602J AHCI controller for 4 SATA2 (3 Gb/s) ports; 2 SATA3 (6 Gb/s) RAID 0,1,10</td>
</tr>
<tr>
<td>Display Ports</td>
<td>2 HDMI + 1 VGA</td>
<td>BMC integrated Matrox G200</td>
<td>BMC integrated Matrox G200</td>
<td>BMC integrated Matrox G200</td>
</tr>
<tr>
<td>USB Ports</td>
<td>4 USB 3.0 ports (2 via header) 4 USB 2.0 ports (4 rear+6 via headers)</td>
<td>9 USB 2.0 ports (2 rear + 6 via headers + 1 Type A)</td>
<td>6 USB 2.0 ports (4 rear, 2 headers)</td>
<td>7 USB 2.0 ports (4 rear + 2 via headers + 1 Type A)</td>
</tr>
<tr>
<td>Other Onboard I/O Devices</td>
<td>1 SATA DOM power controller Realtek 7.1 HD 2 fast UART 16550 serial COM port (1 rear, 1 header)</td>
<td>1 SATA DOM power controller 2 fast UART 16550 serial COM port (1 rear, 1 header)</td>
<td>1 SATA DOM power controller 1 fast UART 16550 serial COM port (1 header)</td>
<td>1 SATA DOM power controller 1 fast UART 16550 serial COM port (1 header)</td>
</tr>
<tr>
<td>Manageability</td>
<td>Watch Dog, AMT 8.0, vPro SuperDoctor® III</td>
<td>IPMI 2.0 + KVM with dedicated LAN Watch Dog SuperDoctor® III</td>
<td>IPMI 2.0 + KVM with dedicated LAN Watch Dog SuperDoctor® III</td>
<td>IPMI 2.0 Watch Dog SuperDoctor® III</td>
</tr>
<tr>
<td>Health Monitoring</td>
<td>Monitors CPU voltages, +3,3V, +5V, +12V &amp; +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 8-fan headers with tachometer monitoring, supports system management utility, chassis intrusion header</td>
</tr>
<tr>
<td>Thermal Control</td>
<td>4-pin PWM fan speed control &amp; overheated LED indication</td>
<td>Overheat LED indication, thermal control tachometer fan connectors</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, SDDC, &amp; CPU thermal trip support for processor protection, Node Manager Support</td>
<td>Overheat LED indication, fan speed control, 5x 4-pin fan headers with tachometer monitoring</td>
</tr>
<tr>
<td>Other Features</td>
<td>ACPI power management, WOL, control of power-on mode for recovery from AC power loss, TM1 &amp; CPU thermal trip support for processor protection</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, System level control, LED, WOL</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, SDDC, TM2 &amp; CPU thermal trip support for processor protection, Node Manager Support</td>
</tr>
<tr>
<td>BIOS</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
</tr>
</tbody>
</table>

* Supermicro chassis required for optimal functionality and performance
* Please check Tested Memory List on Supermicro website for compatibility
<table>
<thead>
<tr>
<th>MODEL</th>
<th>X9DRD-EF</th>
<th>X9DRD-7LN4F(-JBOD)</th>
<th>X9DR7-TF+</th>
<th>X9DRX+-F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Dual Intel® Xeon® Processor E5-2600 v2 family, up to 12 core processors; Socket R (LGA 2011) supported; QPI up to 8.0GT/s; TDP up to 135W</td>
<td>Dual Intel® Xeon® Processor E5-2600 v2 family, up to 12 core processors; Socket R (LGA 2011) supported; QPI up to 8.0GT/s; TDP up to 135W</td>
<td>Dual Intel® Xeon® Processor E5-2600 v2 family, up to 12 core processors; Socket R (LGA 2011) supported; QPI up to 8.0GT/s; TDP up to 135W</td>
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</tr>
<tr>
<td>Chipset/System Bus</td>
<td>Intel® C602J Chipset</td>
<td>Intel® C602J Chipset</td>
<td>Enhanced Intel® C602J Chipset</td>
<td>Intel® C602 Chipset</td>
</tr>
<tr>
<td>Form Factor</td>
<td>E-ATX 12&quot;W x 13&quot;H</td>
<td>E-ATX 12&quot;W x 13&quot;H</td>
<td>Proprietary 15.2&quot;W x 13.2&quot;H</td>
<td>Intel® C602 Chipset</td>
</tr>
<tr>
<td>Memory Capacity &amp; Slots</td>
<td>Up to 17B ECC RDDR3, 512GB ECC RDIMM, or 128GB ECC/non-ECC UDIMM; DDR3 up to 1866MHz, in 16 DIMM slots</td>
<td>Up to 17B ECC RDDR3, 512GB ECC RDIMM, or 128GB ECC/non-ECC UDIMM; DDR3 up to 1866MHz, in 16 DIMM slots</td>
<td>Up to 1.5TB ECC RDDR3, 512GB ECC RDIMM, or 128GB ECC/non-ECC UDIMM; DDR3 up to 1866MHz, in 16 DIMM slots</td>
<td>Up to 17B ECC RDDR3, 512GB ECC RDIMM, or 128GB ECC/non-ECC UDIMM; DDR3 up to 1866MHz, in 16 DIMM slots</td>
</tr>
<tr>
<td>Expansion Slots</td>
<td>6 PCI-E 3.0 x8</td>
<td>6 PCI-E 3.0 x8</td>
<td>2 PCI-E 3.0 x16, 4 PCI-E 3.0 x8</td>
<td>10 PCI-E 3.0 x8, 1 PCI-E 2.0 x4 (in x8)</td>
</tr>
<tr>
<td>Onboard RAID Controller</td>
<td>Intel® C602 AHCI controller for 2 SATA3 (6Gb/s) and 4 SATA2 (3Gb/s) ports; RAID 0,1,5,10;</td>
<td>Intel® C602 AHCI controller for 2 SATA3 (6Gb/s) and 4 SATA2 (3Gb/s) ports; RAID 0,1,5,10;</td>
<td>Intel® C602 AHCI controller for 2 SATA3 (6Gb/s) and 4 SATA2 (3Gb/s) ports; RAID 0,1,5,10;</td>
<td>Intel® C602 AHCI controller for 2 SATA3 (6Gb/s) and 4 SATA2 (3Gb/s) ports; RAID 0,1,5,10;</td>
</tr>
<tr>
<td>Onboard LAN</td>
<td>Dual LAN with Intel® i350 Gigabit Ethernet Controller</td>
<td>Quad LAN with Intel® i350 Gigabit Ethernet Controller</td>
<td>Dual 10GbE Controller with Intel® X540 10GbE Controller</td>
<td>Dual LAN with Intel® i350 Gigabit Ethernet Controller</td>
</tr>
<tr>
<td>Display Ports</td>
<td>BMC integrated Matrox G200</td>
<td>BMC integrated Matrox G200</td>
<td>BMC Integrated Matrox G200</td>
<td>BMC integrated Matrox G200</td>
</tr>
<tr>
<td>USB Ports</td>
<td>9 USB 2.0 ports (4 rear + 4 via headers + 1 Type A)</td>
<td>9 USB 2.0 ports (4 rear + 4 via headers + 1 Type A)</td>
<td>9 USB 2.0 ports (4 rear + 4 via headers + 1 Type A)</td>
<td>10 USB 2.0 ports (4 rear + 4 via headers + 2 Type A)</td>
</tr>
<tr>
<td>Other Onboard I/O Devices</td>
<td>1 SATA DOM power connector 2 fast UART 16550 serial COM port (1 rear, 1 header)</td>
<td>1 SATA DOM power connector 2 fast UART 16550 serial COM port (1 rear, 1 header)</td>
<td>1 SATA DOM power connector 2 fast UART 16550 serial COM port (1 rear, 1 header)</td>
<td>1 SATA DOM power connector 2 fast UART 16550 serial COM port (1 rear, 1 header)</td>
</tr>
<tr>
<td>Manageability</td>
<td>IPMI 2.0 + KVM with dedicated LAN Watch Dog SuperDoctor’ III</td>
<td>IPMI 2.0 + KVM with dedicated LAN Watch Dog SuperDoctor’ III</td>
<td>IPMI 2.0 + KVM with dedicated LAN Watch Dog SuperDoctor’ III</td>
<td>IPMI 2.0 + KVM with dedicated LAN Watch Dog SuperDoctor’ III</td>
</tr>
<tr>
<td>Health Monitoring</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header</td>
<td>Monitors CPU voltages, +3.3V, +5V, +12V &amp; +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header</td>
</tr>
<tr>
<td>Thermal Control</td>
<td>4-pin PWM fan speed control &amp; overheat LED indication</td>
<td>4-pin PWM fan speed control &amp; overheat LED indication</td>
<td>4-pin PWM fan speed control &amp; overheat LED indication</td>
<td>4-pin PWM fan speed control &amp; overheat LED indication</td>
</tr>
<tr>
<td>Other Features</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, SSDC &amp; CPU thermal trip support for processor protection, Node Manager Support</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, SSDC &amp; CPU thermal trip support for processor protection, Node Manager Support</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, SSDC &amp; CPU thermal trip support for processor protection, Node Manager Support</td>
<td>ACPI power management, WOL, control of power-on for recovery from AC power loss, SSDC &amp; CPU thermal trip support for processor protection, Node Manager Support</td>
</tr>
<tr>
<td>BIOS</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
<td>AMI UEFI</td>
</tr>
</tbody>
</table>
New! Front I/O

High-Efficiency Power Supplies

Supermicro's wide range of high efficiency power supplies offer many features including Platinum / Gold Level efficiency, digital switching control, super quiet operation, redundancy, DC inputs, FCC Class B certification, EuP standard support, remote monitoring with PMBus, support for GPUs/graphics cards. Supermicro's power supplies are designed for embedded applications where high reliability and highest power efficiencies are essential. Supermicro is experienced in testing and validating these power supplies in all relevant embedded environments and under all necessary operating conditions.

BBP® (Battery Backup Power) Solutions

New, innovative, Battery Backup Power (BBP®) technology providing a cost-effective infrastructure solution for mission-critical server and storage operation. The PWS-1K03B-1R is an industry-first Battery Backup Power (BBP®) module contained in the same form factor as a Supermicro redundant AC power supply (76W x 360D x 40.4H mm). This module is hot-swappable and fits Supermicro 1U/2U/3U/4U chassis providing high output power in 1200W/1min and 1000W/2.5 min options. These can be implemented in 1+1+1 (2 AC modules + 1 BBP® Module), 1+2 (1 AC + 2 BBP® @ 2000W) or 2+2 (2 AC + 2 BBP® @ 2000W) configurations. For Supermicro's 1U servers, the PWS-2068B-1R (54.5W x 220D x 40H mm) provides BBP® protection in 200W/5min and 100W/15min options.
**Industrial Rackmount · Riser Cards · LCD Panels**

**New!**

**SAS3 (12Gbps)**

<table>
<thead>
<tr>
<th>Model</th>
<th>SC813MTQ-R400CB</th>
<th>SC813T-600CB</th>
<th>SC116AC-R700WB</th>
<th>SC825MTQ-R700LPB</th>
<th>SC842TQ-665B/865B</th>
<th>SC842XTQ-R606B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form Factor</td>
<td>1U Rackmount</td>
<td>1U Rackmount</td>
<td>1U Rackmount</td>
<td>2U Rackmount</td>
<td>4U Rackmount</td>
<td>4U Rackmount</td>
</tr>
<tr>
<td>Compatible Motherboard</td>
<td>ATX, MicroATX</td>
<td>E-ATX, ATX, MicroATX</td>
<td>E-ATX, ATX, MicroATX</td>
<td>E-ATX, ATX, MicroATX</td>
<td>E-ATX, ATX, MicroATX</td>
<td>E-ATX, ATX, MicroATX</td>
</tr>
<tr>
<td>CPU Support</td>
<td>Dual and single processors</td>
<td>Dual and single processors</td>
<td>Dual and single processors</td>
<td>Dual and single processors</td>
<td>Dual and single processors</td>
<td>Dual and single processors</td>
</tr>
<tr>
<td>Drive Bays</td>
<td>4x 3.5&quot; Hot-swap SAS / SATA</td>
<td>4x 3.5&quot; Hot-swap SAS / SATA</td>
<td>8x 2.5&quot; HOT Mini SAS, 2x SAS2 / SATA3</td>
<td>3x 3.5&quot; Hot-swap SAS / SATA</td>
<td>5x Hot-swap 3.5&quot; SAS / SATA</td>
<td>5x Hot-swap 3.5&quot; SAS / SATA</td>
</tr>
<tr>
<td>Expansion Slots</td>
<td>1x full-height, half-length</td>
<td>1x full-height</td>
<td>2 x full-height, half-length, 1x low-profile expansion slots</td>
<td>7 low-profile expansion slots</td>
<td>7x full-height, full-length</td>
<td>7x full-height, full-length and 4x full-height, half-length</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17.2&quot;x19.85&quot;x1.7&quot; 437 x 504 x 43 mm</td>
<td>17.2&quot;x25.6&quot;x1.7&quot; 437 x 650 x 43 mm</td>
<td>17.2&quot;x23.5&quot;x1.7&quot; 437x597 x 43 mm</td>
<td>17.2&quot;x17.7&quot;x3.5&quot; 437x450 x 89 mm</td>
<td>17.2&quot;x20.5&quot;x 7&quot; 437x521 x 178mm</td>
<td>17.2&quot;x20.5&quot;x 7&quot; 437x521 x 178mm</td>
</tr>
</tbody>
</table>

**OLED Screen Module**

The Supermicro OLED screen module features a 1” color display screen using the latest OLED technology. This OLED displays are thinner and lighter than traditional LCD displays, providing better power efficiency and offering wider viewing angles with improved clarity. With four lines of characters and 12 characters per line, the OLED screen module displays vivid colors with 64 x 96 pixels and 16 bit color.

**LCD Screen Module**

The Supermicro LCD screen module features green LCD display screen. The module displays two backlighted lines of data with 16 characters per line, and includes 6 front access keys (4-way direction keys and Enter/Cancel buttons), and USB interface with pin header to support up to 100cm of cable connected to a communications terminal.

**Front Bezel/LCD**

<table>
<thead>
<tr>
<th>Product Image</th>
<th>Model Name</th>
<th>Feature</th>
<th>Form Factor / Chassis</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCP-220-00095-0B</td>
<td>LCD display kits</td>
<td>5.25&quot; bay</td>
<td></td>
</tr>
<tr>
<td>MCP-220-00096-0B</td>
<td>OLED kits</td>
<td>3.25&quot; bay</td>
<td></td>
</tr>
<tr>
<td>MCP-210-00007-01</td>
<td>Front bezel with LCD display</td>
<td>SC813/813M series</td>
<td></td>
</tr>
<tr>
<td>SCPTFB-813LB</td>
<td>Front bezel with lock</td>
<td>SC813/813M series</td>
<td></td>
</tr>
<tr>
<td>MCP-210-82502-0B</td>
<td>Front bezel with lock</td>
<td>SC825M series</td>
<td></td>
</tr>
<tr>
<td>MCP-210-84201-0B</td>
<td>Front bezel with lock</td>
<td>SC842 series</td>
<td></td>
</tr>
</tbody>
</table>

**1U Riser Cards**

<table>
<thead>
<tr>
<th>Product Image</th>
<th>Model Name</th>
<th>Riser Card Output Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RSC-R1U-33</td>
<td>1x PCI</td>
</tr>
<tr>
<td></td>
<td>RSC-RR1U-E8</td>
<td>1x PCI-E x8</td>
</tr>
<tr>
<td></td>
<td>RSC-RR1U-E16</td>
<td>1x PCI-E x16</td>
</tr>
</tbody>
</table>

**LCD/OLED Software Support**

JAVA based API compatible w/ Windows 32/64-bit & Linux GUI based, with complete list of LCD functions
**Embedded Building Block Solutions**

**Embedded Motherboards**

Supermicro offers a full range of standard form factor motherboards that include Mini-ITX, Micro-ATX, ATX, and E-ATX. These long life cycle motherboards support single and dual Intel® processors by delivering the latest technology and the best performance. The proprietary form factor motherboard provides 11-slots with PCI-E 3.0 for extreme expansion.

**IPC Rackmount Chassis**

Supermicro offers a full range of short depth 1U to 4U Rackmount chassis in various configuration and expansion capabilities. These chassis are designed to support embedded motherboards, such as Mini-ITX, Micro-ATX, ATX, and E-ATX and proprietary form factors. Features include high-efficiency power supplies, redundant power supply, hot-swap accessories, storage and cooling options.

**SuperServer®**

Supermicro combines 20+ years of advanced engineering experience with efficient production and integration expertise. Supermicro offers first-to-market embedded computing SuperServer®s that are fully configured and provides one-stop solution from design support to worldwide service.

**Accessories**

Supermicro offers a wide variety of tested and certified easy-to-use accessories that are optimized for our server solutions. Standard accessories offering include networking and storage Add-on cards, OLED and LCD system status display kits, AC and DC high-efficiency power supply, battery backup power modules and Hot-swap Mobile Racks.

**Supermicro mSATA**

Supermicro offers mSATA SSDs supporting SATA 3.0 with backward compatibility with earlier SATA generations. These SSDs are easy to install, take up less space and power while providing higher performance than HDDs, and require no additional cabling for smaller form factor systems.

**Supermicro SATA DOM**

Supermicro offers SATA 3.0 Disk-on-Modules (DOM) SSDs with built-in power pins and backward compatibility with earlier SATA generations. These SSDs plug directly on the motherboard, serve as excellent boot/OS drives due to their higher read/write rates than HDDs, and free up a disk tray for additional end-user storage capacity.

**Supermicro Ethernet Switch**

The SSE-G2252 switches offer a full range of popular Ethernet features like Jumbo Frames, Link Aggregation, VLANs, Energy Efficient Ethernet, and a Power over Ethernet option. All of this is done in a compact 1U form factor for maximum flexibility in rack-mount installation.

**Supermicro Trusted Platform Module (TPM)**

The Supermicro AOM-TPM9655V/H is a security hardware device on the system board that will hold computer generated keys for encryption. Supermicro’s outstanding hardware base solution ensures that the information like keys, password and digital certificates stored within is made more secure from external software attacks and physical theft. With the handful of keys it stores, all cryptographic functions are performed on the chip. AOM-TPM9655V/H is an ideal tool for customers who are looking for additional layer of security to their super servers.

**OEM Design-in Services**

Supermicro is a technology provider of embedded building blocks. We are the First to Market in embedded solutions for critical OEM applications and provide a wide choice of off-the-shelf embedded building blocks - along with long product lifecycle, open standards, designed to high quality with world class support.
About Supermicro

Super Micro Computer, Inc. or Supermicro® (NASDAQ: SMCI), a global leader in high-performance, high-efficiency server technology and innovation is a premier provider of end-to-end green computing solutions for Enterprise IT, Data Center, Cloud Computing, Big Data, HPC and Embedded Systems worldwide. Founded in 1993 and headquartered in San Jose, California, Supermicro has been profitable every year since inception and has annual sales over $1 billion. Products are sold through major distribution channels including VARs, SIs and OEMs worldwide, as well as through its direct sales force. Operations centers are located in Silicon Valley, the Netherlands, and a new 1 million+ square foot Science & Technology Park and advanced integration facility in Taiwan.

About Supermicro Embedded Solutions

Supermicro provides innovative and first-to-market technologies that are the building blocks for today’s embedded computing platforms. Rapid growth in the embedded markets and open standards are driving the need for higher levels of product integration and optimization through network connectivity, remote management, mobile communication, expanded I/O, and device to device communications using space and power efficient configurations. We offer the widest choice of off-the-shelf building blocks to meet customer needs that are optimized to specific applications. Supermicro’s high-performance embedded motherboards offer the most extensive selection in the industry, utilizing Intel® processors and chipsets that meet our customer’s needs.

About Supermicro Onsite Services

As a leading provider of Building Block Solutions® for Data Centers, Supermicro is the premier choice for your professional support services- offering global coverage and highly efficient, on-time responsiveness to meet your hardware maintenance challenges. Supermicro’s goals are to help you improve your service levels, reduce operating expenses through efficiency, while extending your overall infrastructure value through maximum uptime. With Supermicro Super Services, you can count on results through these areas below:

- Flexible and customizable service level agreements (SLA)
- Highly efficient support systems and processes.
- Direct access to Level III services staff, field service engineers, and support operation management.
- Live, domestic call center responses, not an automated voice system
- Single point of contact for support in a complex environment

Supermicro’s focus is to ensure that you protect your hardware investment by maintaining a high level of uptime. We promise each customer professional levels of responsiveness, accountability, collaboration and quality.
Supermicro focuses on application optimization, product quality, availability, world wide support and total customer satisfaction. We are a leading innovator in high-performance, high-efficiency server technology and a premier provider of end-to-end server solutions for Enterprise IT, HPC, Big Data and Cloud Computing worldwide. Our server technology proficiency, highly reliable design philosophy, long product life cycle and cost competitiveness, have all been integrated into our embedded products. With our extensive knowledge and expertise in high-end server design and manufacturing, Supermicro offers the embedded market the highest quality products and solutions that meet even the most challenging embedded design needs.

Embedded Building Blocks Solutions

Supermicro

Worldwide

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