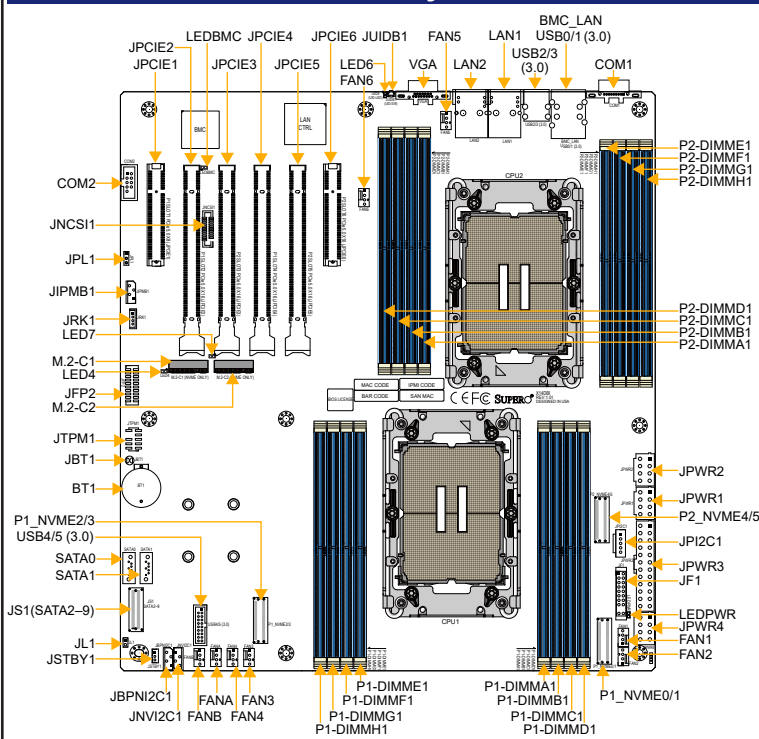


SUPERMICR SuperServer 622B-TRT Quick Reference Guide

Board Layout



Connector	Description
JBT1	Clear CMOS (Onboard)
JPL1	LAN1, LAN2 Enable/Disable
LED	Description
LED4, LED7	M.2 LEDs (for M.2-C1, M.2-C2)
LED6	Unit Identifier (UID) LED
LEDBMC	BMC Heartbeat LED
LEDPWR	Onboard Power LED
Connector	Description
BT1	Onboard CMOS Battery
BMC_LAN	Dedicated BMC LAN Port
COM1	Rear COM Port
COM2	Front Accessible COM Port Header
FAN1-FAN6, FANA, FANB	CPU/System Fan Headers
JBPNI2C1	Backplane SMBus Header
JF1	Front Control Panel Header
JFP2	Front Accessible VGA Connection Header
JIPMB1	4-pin BMC External I2C Header (for Inlet Temperature Sensor)
JL1	Chassis Intrusion Header
JNC1	NC-SI (Network Controller Sideband Interface) Connector
JNV12C1	NVMe SMBus I2C Header with hot-plug support
JPCIE1 (SLOT1), JPCIE6 (SLOT6)	PCIe 5.0 x8 Slots (SLOT1: supported by CPU1, SLOT6: supported by CPU2)
JPCIE2 (SLOT2), JPCIE4 (SLOT4)	PCIe 5.0 x16 Slots supported by CPU1
JPCIE3 (SLOT3), JPCIE5 (SLOT5)	PCIe 5.0 x16 Slots supported by CPU2
JPI2C1	Power System Management Bus (SMBus) I2C Header
JPWR1, JPWR2, JPWR4	8-pin Power Connectors
JPWR3	24-pin ATX Power Connector
JRK1	Intel VROC Key Header for NVMe RAID support
JS1 (SATA2-9)	SlimSAS x8 Connector with support of eight SATA 3.0 connections
JSTBY1	5V Standby Power Header
JTPM1	Trusted Platform Module/Port 80 Header
JUIDB1	Unit Identifier (UID) Switch / BMC Reset Button
LAN1, LAN2	10GbE LAN Ports
M.2-C1, M.2-C2	PCIe 5.0 x4 NVMe M.2 Slots supported by CPU1 (with support of M-Key 2280 and 22110 form factors)
P1_NVME0/1, P1_NVME2/3	M.2 PCIe 5.0 x8 Connectors supported by CPU1, each with support of two NVMe connections
P2_NVME4/5	M.2 PCIe 5.0 x8 connector supported by CPU2, with support of two NVMe connections
SATA0, SATA1	SATA 3.0 Ports with support of RAID 0/1
USB0/1 (3.0)	Rear USB 3.0 Ports (5 Gbps, Type-A)
USB2/3 (3.0)	Rear USB 3.0 Ports (5 Gbps, Type-A)
USB4/5 (3.0)	USB 3.0 Header with support of two USB connections
VGA	Rear VGA Port

Memory

DIMM Population Guidelines for Optimal Performance

DDR5-6400 Memory Support for the Intel® Xeon® 6700-series processors with E-cores					
Type	Ranks Per DIMM, Data Width (Stack)	DIMM Capacity (GB)			Speed (MT/s); Voltage (V); Slots per Channel (SPC) and DIMMs per Channel (DPC)
		DRAM Density			
		16 Gb	24 Gb	32 Gb	1DPC/2SPC +1.1 V
		1DPC	1DPC	1DPC	
RDIMM	1Rx4	32 GB	-	-	
	2Rx8	32 GB	-	-	6400, 6000, 5600, 5200, 4800 (DDR5-6400 rated RDIMMs only)
	2Rx4	64 GB	96 GB	-	
	2Rx4	-	-	128 GB	

CXL Memory Configuration Support for the Intel® Xeon® 6700-series processors with E-cores

Native DDR5 Memory Per Socket				CXL Memory Per Socket				
Slot 0 DIMM Ranks	Slot 0 DIMM Capacity (GB)	DIMM Type	DRAM Density (Gb)	CXL Memory Channels	CXL Memory Type	CXL Capacity Per Device/Module	CXL Interleave	CXL Mode
2Rx4	64	10x4	16	2+2	DDR5 x8	64 GB	1x4*, 2x2, 4x1	1LM+Vol
2Rx4	64	10x4	16	1+1	DDR5 x16	128 GB	1x2*, 2x1	1LM+Vol
1Rx4	32	10x4	16	2	DDR5 x8	128 GB	1x2*	Intel Flat Memory Mode

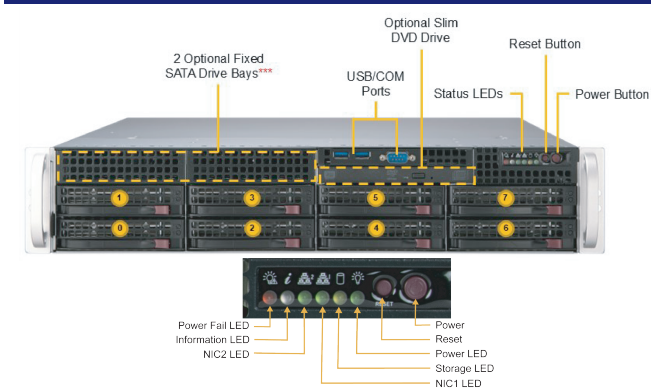
Note: The memory configurations with an asterisk (*) are the default settings in BIOS.

Intel® Xeon® 6700-series processors with E-cores DDR5 Memory Population Table

(2 Processors and 16 DIMMs Installed, 1DPC)

Processor DIMM Counts	Memory Population Sequence (1DPC)
1 Processor and 1 DIMM	P1-DIMMA1
1 Processor and 4 DIMMs	P1-DIMMA1/P1-DIMMC1/P1-DIMME1/P1-DIMMG1 P1-DIMMB1/P1-DIMMD1/P1-DIMMH1/P1-DIMMF1
1 Processor and 8 DIMMs	P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1/P1-DIMMG1/P1-DIMMH1
2 Processor DIMM Counts (Recommended)	Memory Population Sequence (1DPC)
2 Processors and 8 DIMMs	P1-DIMMA1/P1-DIMMC1/P1-DIMME1/P1-DIMMG1 P2-DIMMA1/P2-DIMMC1/P2-DIMME1/P2-DIMMG1
2 Processors and 8 DIMMs	P1-DIMMB1/P1-DIMMD1/P1-DIMMF1/P1-DIMMH1 P2-DIMMB1/P2-DIMMD1/P2-DIMMF1/P2-DIMMH1
2 Processors and 16 DIMMs	P1-DIMMA1/P1-DIMMB1/P1-DIMMC1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1/P1-DIMMG1/P1-DIMMH1 P2-DIMMA1/P2-DIMMB1/P2-DIMMC1/P2-DIMMD1/P2-DIMME1/P2-DIMMF1/P2-DIMMG1/P2-DIMMH1

Front View & Interface

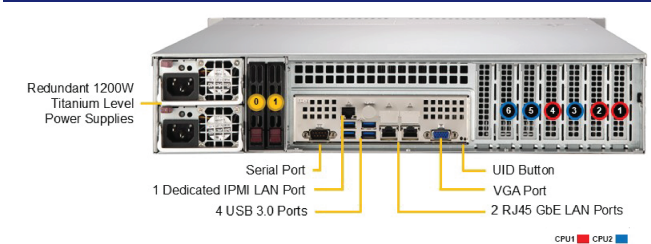


Chassis Features: Front	
Feature	Description
SATA Drive Bays	Two optional fixed SATA drive bays
USB/COM Ports	Two USB 3.0 ports One COM port
DVD Drive	One optional slim DVD drive
Control Panel	Front control panel with LEDs and buttons (see next page)
Reset Button	One reset button
Power Button	One power button

Storage Drive Locations	
Location	Description
0-3	3.5" hot-swap NVMe*/SAS/SATA3 drive bays
4-7	3.5" hot-swap SAS*/SATA3 Drive Bays

*SAS3 drive support requires additional parts from the optional parts list
**NVMe drive support requires additional parts from the optional parts list

Rear View

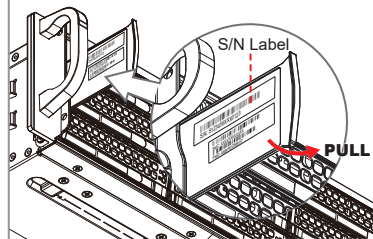


Drive Carrier LED Indicators		Expansion Slot Locations	
Feature	Description	Location	Description
Power Supplies	Redundant 1200W titanium level power supplies	1	One PCIe 5.0 x8 LP slot (CPU1)
LAN Ports	One dedicated IPMI LAN port Two RJ45 GbE LAN ports	2, 4	One PCIe 5.0 x16 LP slot (CPU1)
USB Ports	Four USB 3.0 ports	3, 5	One PCIe 5.0 x16 LP slot (CPU2)
UID button	One UID button	6	One PCIe 5.0 x8 LP slot (CPU2)
VGA Port	Video port		

Drive Bay Locations	
Location	Description
0-1	Optional 2.5" hot-swap NVMe/SAS/SATA3 drive bay

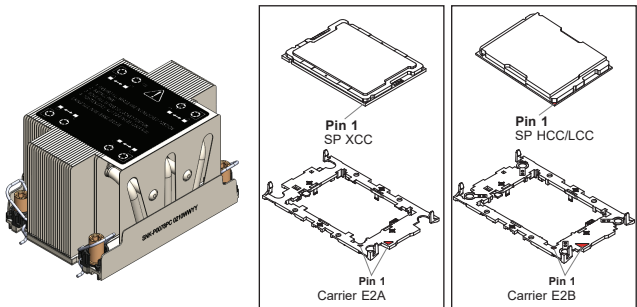
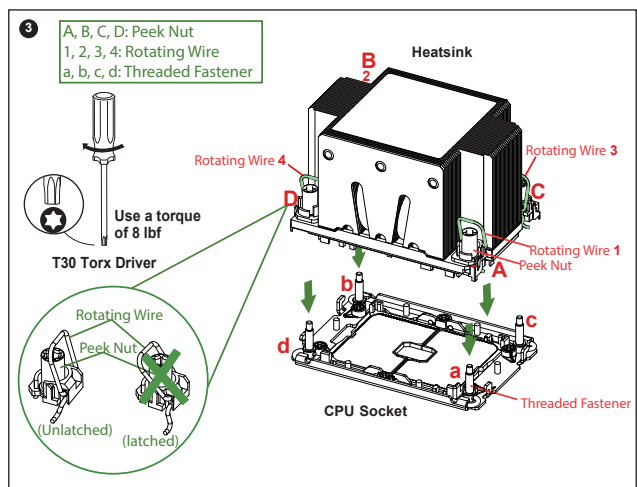
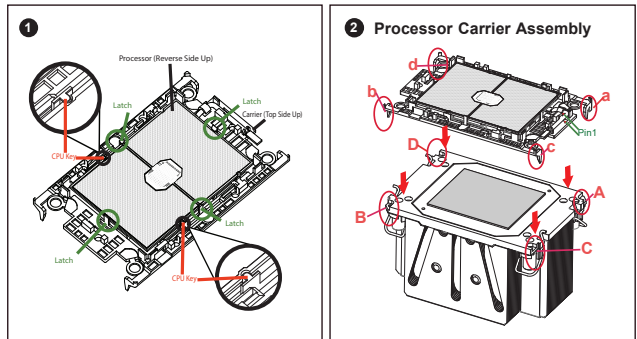
System Information

Pull-out tag with BMC unique password and Serial Number Label on the left side of service tag.



Each system comes with a unique default password for the ADMIN user. This can be found on a sticker on the motherboard and a sticker on the left side of the service tag on chassis. If necessary, the password can be reset by the Supermicro IPMICFG tool. For more information, please visit <https://www.supermicro.com/en/solutions/management-software/bmc-resources>

CPU/Heatsink Installation



Heatsink SNK-P0088P (for CPU1 and CPU2)
Note: Thermal grease is pre-applied on new heatsinks. No additional thermal grease is needed. CPU carrier is optional; please select CPU carrier by CPU model (E2A for SP XCC, E2B for SP HCC/LCC).

Caution

SAFETY INFORMATION
IMPORTANT: See installation instructions and safety warning before connecting system to power supply. http://www.supermicro.com/about/policies/safety_information.cfm

WARNING
To reduce risk of electric shock/damage to equipment, disconnect power from server by disconnecting all power cords from electrical outlets. If any CPU socket empty, install protective plastic CPU cap

CAUTION
Always be sure all power supplies for this system have the same power output. If mixed power supplies are installed, the system will not operate.

For more information go to : <http://www.supermicro.com/support>

