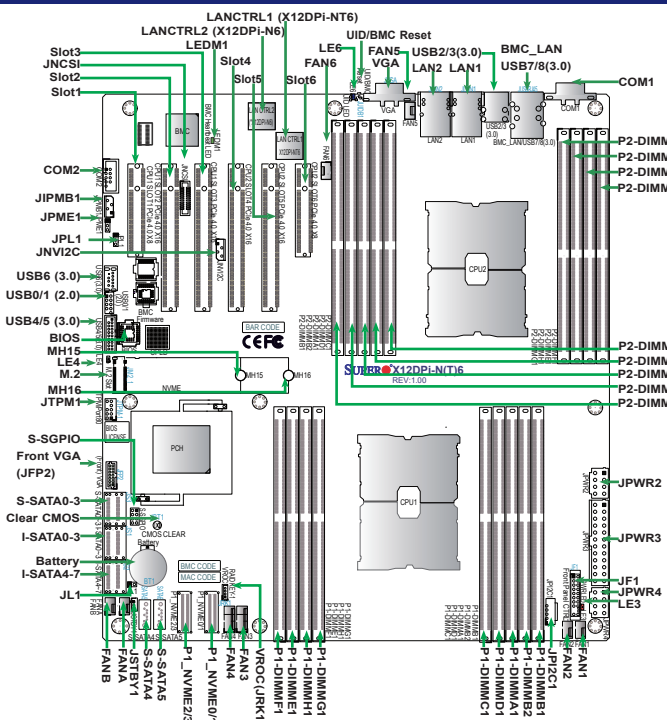


SUPERMICR SuperServer 740P-TR/TRT Quick Reference Guide

Board Layout



Jumper	Description	Default Setting
JBT1	CMOS Clear	Open (Normal)
JPG1	Audio Enable	Pins 1-2 (Enabled)
JPME1	ME Recovery	Pins 1-2 (Normal)
JPME2	Manufacturing Mode Select	Pins 1-2 (Normal)
JVRM1/JVRM2	VRM SMB (to BMC or PCH)	Pins 1-2 (BMC, Normal)
JWD1	Watch Dog Timer Enable	Pins 1-2 (Reset to System)

Connector	Description
BT1	Onboard CMOS battery socket
COM1/COM2	Back panel COM port/COM header for front access
FAN1-6, FANA/FANB	System cooling fan headers (FAN1-FAN6, FAN A, FAN B)
IPMI_LAN	Dedicated IPMI_LAN port
I-SATA0-3, I-SATA4-7	SATA 3.0 connection header supported by the Intel PCH
JF1	Front Panel Control header
JHF11/JHF12	Host Fabric Interface (HFI) sideband headers for the HFI cards
JIPMB1	4-pin BMC External I°C header (for an IPMI-supported card)
JL1	Chassis Intrusion header
JM2_1	M.2 slot
JNVFC	NVMe I°C header
JNVME1/JNVME2	NVMe Slot1/NVMe Slot2
JJPFC1	Power Supply SMBus I°C header
JPWR1/JPWR2	8-pin Power Supply connectors
JPWR3	24-pin ATX main power supply connector
JRK1	RAID Key for onboard SATA devices
JSTBY1	Standby power header
JTPM1	Trusted Platform Module (TPM)/Port 80 connector
LAN1/LAN2 (Note)	Gigabit LAN/10G LAN Ethernet ports on the backpanel
S-SATA0-3	S-SATA 3.0 connection Header supported by the Intel SCU
S-SATA4/S-SATA5	Powered S-SATA Ports SuperDOM (Disk On Module) devices
SLOT1	PCI-Express 4.0 X8 Slots supported by CPU1
SLOT2/SLOT3	PCI-Express 4.0 X16 Slots supported by CPU1
SLOT4/SLOT5	PCI-Express 4.0 X16 Slots supported by CPU2
SLOT6	PCI-Express 4.0 X8 Slots supported by CPU2
T-SGPIO3	General Purpose Serial I/O port
UID	Unit Identifier (UID) switch
USB0/1 (2.0)	Front Accessible USB header with two USB 2.0 connections
USB2/3, USB7/8 (3.0)	Rear I/O USB 3.0 ports
USB4/5 (3.0)	Front Accessible USB header with two USB 3.0 connections
USB6	Internal USB 3.0 Type-A header
VGA (JFP2)	Front VGA header

Memory

Note 1: Intel Optane PMem 200 Series is supported by the 3rd Gen Intel Xeon Scalable Processor (83xx/63xx/53xx/4315) Series only.
 Note 2: P1-DIMMB2/P2-DIMMB2 memory slots are reserved for Intel Optane PMem 200 Series only.
 Note 3: Memory speed support depends on the processors used in the system.

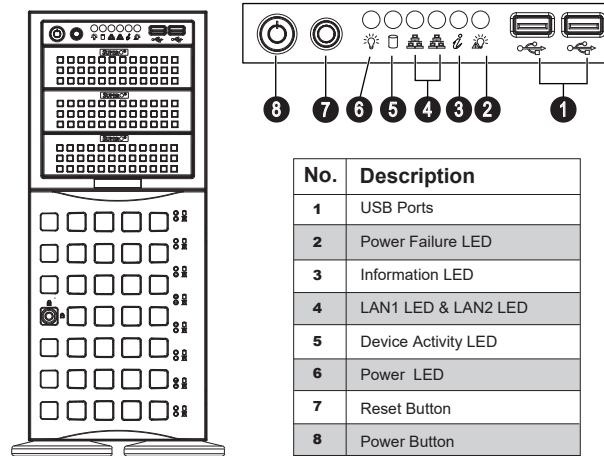
Memory Support for the 3rd Gen Intel Xeon Scalable Processor					
Type	Ranks Per DIMM & Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V); Slot Per Channel (SPC) and DIMM Per Channel (DPC)	
		8Gb	16Gb	1DPC (1-DIMM Per Channel)	2DPC (2-DIMM Per Channel)
RDIMM	SRx8	8GB	16GB	3200	1.2V
	16GB	32GB			
	DRx8	16GB	32GB		
	DRx4	32GB	64GB		
RDIMM-3DS	(4R/8R)x4	2H-64GB 4H-128GB	2H-128GB 4H-256GB	3200	2933*
LRDIMM	QRx4	64GB	128GB	3200	3200
LRDIMM-3DS	(4R/8R)x4	4H-128GB	2H-128GB 4H-256GB	3200	3200

Validation Matrix (DDR4 DIMMS w/PMem 200 Series)			
DIMM Type	Ranks Per DIMM & Data Width (Stack)	DIMM Capacity (GB)	
		8Gb	16Gb
RDIMM (up to 3200)	1Rx8	N/A	N/A
	1Rx4	16GB	32GB
	2Rx8	16GB	32GB
	2Rx4	32GB	64GB
RDIMM 3DS (up to 3200)	4Rx4 (2H)	N/A	128GB
	8Rx4 (4H)	NA	256GB
LRDIMM (up to 3200)	4Rx4	64GB	128GB
LRDIMM 3DS (up to 3200)	4Rx4 (2H)	N/A	N/A
	8Rx4 (4H)	126GB	256GB

Memory Population Table (w/18 Slots)	
When 1 CPU is used:	Memory Population Sequence
1 CPU & 1 DIMM	CPU1: P1-DIMMA1
1 CPU & 2 DIMMs	CPU1: P1-DIMMA1/P1-DIMME1
1 CPU & 3 DIMMs*	CPU1: P1-DIMMA1/P1-DIMME1/P1-DIMMC1
1 CPU & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMME1/P1-DIMMC1/P1-DIMMG1
1 CPU & 5 DIMMs*	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMME1/P1-DIMMC1/P1-DIMMG1
1 CPU & 6 DIMM	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMME1/P1-DIMMF1/P1-DIMMC1/P1-DIMMG1
1 CPU & 7 DIMMs*	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1/P1-DIMMC1/P1-DIMMG1
1 CPU & 8 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1/P1-DIMMC1/P1-DIMMG1/P1-DIMMH1
1 CPU & 9 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1/P1-DIMMC1/P1-DIMMG1/P1-DIMMH1 + (P1-DIMMB2: for Pmem200 series)
When 2 CPUs are used:	Memory Population Sequence
2 CPUs & 2 DIMMs	CPU1: P1-DIMMA1 CPU2: P2-DIMMA1
2 CPUs & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMME1 CPU2: P2-DIMMA1/P2-DIMME1
2 CPUs & 6 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMA1/P2-DIMME1
2 CPUs & 8 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMME1/P1-DIMMF1 CPU2: P2-DIMMA1/P2-DIMMB1/P2-DIMME1/P2-DIMMF1
2 CPUs & 10 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMME1/P1-DIMMF1/P1-DIMMC1/P1-DIMMG1 CPU2: P2-DIMMA1/P2-DIMMB1/P2-DIMME1/P2-DIMMF1
2 CPUs & 12 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMME1/P1-DIMMF1/P1-DIMMC1/P1-DIMMG1 CPU2: P2-DIMMA1/P2-DIMMB1/P2-DIMME1/P2-DIMMF1/P2-DIMMC1/P2-DIMMG1
2 CPUs & 14 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1/P1-DIMMC1/P1-DIMMG1/P1-DIMMH1 CPU2: P2-DIMMA1/P2-DIMMB1/P2-DIMME1/P2-DIMMF1/P2-DIMMC1/P2-DIMMG1
2 CPUs & 16 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1/P1-DIMMC1/P1-DIMMG1/P1-DIMMH1 CPU2: P2-DIMMA1/P2-DIMMB1/P2-DIMMD1/P2-DIMME1/P2-DIMMF1/P2-DIMMC1/P2-DIMMG1/P2-DIMMH1
2 CPU & 18 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1/P1-DIMMF1/P1-DIMMC1/P1-DIMMG1/P1-DIMMH1 + (P1-DIMMB2: for Pmem200 series) CPU2: P2-DIMMA1/P2-DIMMB1/P2-DIMMD1/P2-DIMME1/P2-DIMMF1/P2-DIMMC1/P2-DIMMG1/P2-DIMMH1 + (P2-DIMMB2: for Pmem200 series)

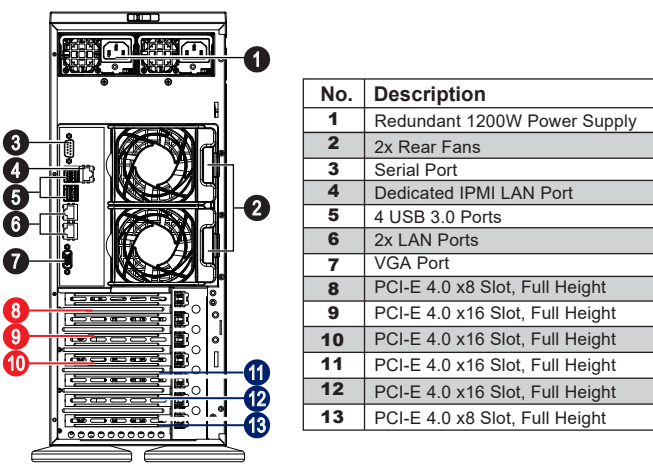
Note: *Unbalanced configuration (not recommended due to decreased performance)

Front View & Interface



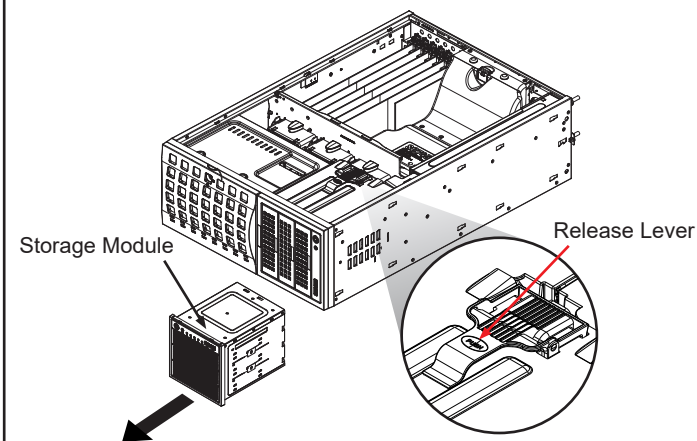
No.	Description
1	USB Ports
2	Power Failure LED
3	Information LED
4	LAN1 LED & LAN2 LED
5	Device Activity LED
6	Power LED
7	Reset Button
8	Power Button

Rear View



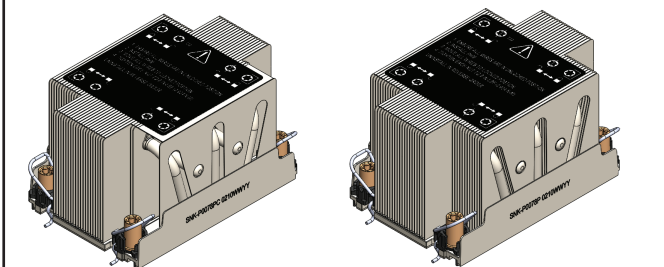
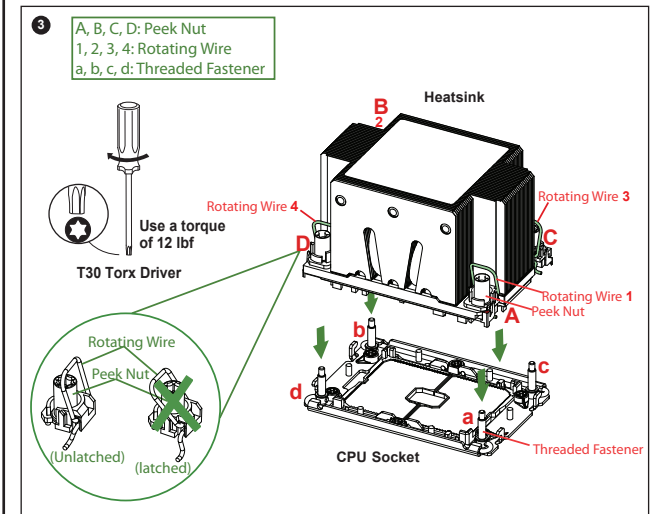
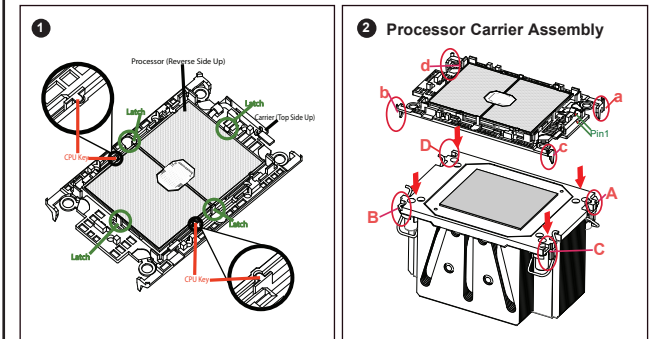
No.	Description
1	Redundant 1200W Power Supply
2	2x Rear Fans
3	Serial Port
4	Dedicated IPMI LAN Port
5	4 USB 3.0 Ports
6	2x LAN Ports
7	VGA Port
8	PCI-E 4.0 x8 Slot, Full Height
9	PCI-E 4.0 x16 Slot, Full Height
10	PCI-E 4.0 x16 Slot, Full Height
11	PCI-E 4.0 x16 Slot, Full Height
12	PCI-E 4.0 x16 Slot, Full Height
13	PCI-E 4.0 x8 Slot, Full Height

Rotating the Optional Storage Module



- ### Rotating the Storage Module for Rack Mounting
1. Open the chassis cover.
 2. Locate the storage module and disconnect any cables from the storage module to any component in the chassis.
 3. Push the storage module release lever. This lever unlocks the storage module.
 4. Grasp the external edges of the storage module and pull the unit from the chassis.
 5. Turn the storage module 90 degrees.
 6. Reinsert the module into the chassis and reconnect the cords.

CPU/Heatsink Installation



Note: Thermal grease is pre-applied on new heatsinks. No additional thermal grease is needed.

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>

