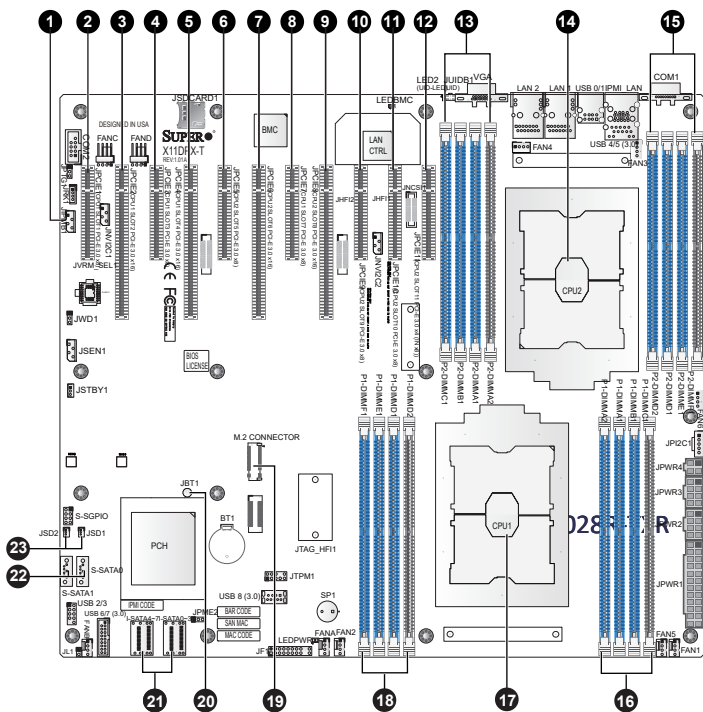


SUPERMICR SuperServer 2029P-TXRT Quick Reference Guide

Board Layout



No. Description

- 1 JIPMB1 (VROC-key)
- 2 CPU1 Slot1 PCI-E 3.0 x8
- 3 CPU1 Slot2 PCI-E 3.0 x16 or x8 (by MUX with CPU1 Slot1)
- 4 CPU1 Slot3 PCI-E 3.0 x8
- 5 CPU1 Slot4 PCI-E 3.0 x16
- 6 CPU2 Slot5 PCI-E 3.0 x8
- 7 CPU2 Slot6 PCI-E 3.0 x16 or x8 (by MUX with CPU2 Slot5)
- 8 CPU1 Slot7 PCI-E 3.0 x8
- 9 CPU2 Slot8 PCI-E 3.0 x16
- 10 CPU2 Slot9 PCI-E 3.0 x8
- 11 CPU2 Slot10 PCI-E 3.0 x8
- 12 CPU2 Slot11 PCI-E (DMI) 2.0 x4 (in x8)
- 13 P2-DIMMC1/ P2-DIMMB1/ P2-DIMMA1/ P2-DIMMA2 (Black)
- 14 CPU2 Socket
- 15 P2-DIMMD2 (Black)/ P2-DIMMD1/ P2-DIMME1/ P2-DIMMF1
- 16 P1-DIMMC1/ P1-DIMMB1/ P1-DIMMA1/ P1-DIMMA2 (Black)
- 17 CPU1 Socket
- 18 P1-DIMMD2 (Black)/ P1-DIMMD1/ P1-DIMME1/ P1-DIMMF1
- 19 M.2 CONNECTOR (PCI-E 3.0 x4 from PCH)
- 20 JBT1 (CMOS Clear)
- 21 I-SATA0~3/ I-SATA4~7 (Intel® PCH SATA 3.0 Ports)
- 22 S-SATA0/ S-SATA1 (SATA 3.0 Ports with Power-pin Built-in)
- 23 JSD1/JSD2 (SATA DOM Power Connectors 1/2)

Memory

Populate DIMM Memory Modules

Processors and Memory Module Population for Optimal Performance	
CPU and Memory Population Configuration Table (For memory to work properly, follow the instructions below)	
1 CPU & 1 DIMMs	CPU1 & P1-DIMMA1
1 CPU & 2 DIMMs	CPU1 & P1-DIMMA1/P1-DIMMD1
1 CPU & 3 DIMMs	CPU1 & P1-DIMMA1/P1-DIMMB1/P1-DIMMC1
1 CPU & 4 DIMMs	CPU1 & P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1
1 CPU & 5~8 DIMMs	CPU1 & P1-DIMMA1/P1-DIMMD1, P1-DIMMB1/P1-DIMME1, P1-DIMMC1/ P1-DIMMF1, P1-DIMMA2/P1-DIMMD2
2 CPUs & 2 DIMMs	CPU1 + CPU2 & P1-DIMMA1, P2-DIMMA1
2 CPUs & 4 DIMMs	CPU1 + CPU2 & P1-DIMMA1/P1-DIMMD1, P2-DIMMA1/P2-DIMMD1
2 CPUs & 6 DIMMs	CPU1 + CPU2 & P1-DIMMA1/P1-DIMMB1/ P1-DIMMC1, P2-DIMMA1/P2-DIMMB1/ P2-DIMMC1
2 CPUs & 8 DIMMs	CPU1 + CPU2 & P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/P1-DIMME1, P2-DIMMA1/ P2-DIMMB1/P2-DIMMD1/P2-DIMME1
2 CPUs & 10 DIMMs	CPU1 + CPU2 (6+4) & P1-DIMMA1/P1-DIMMD1/P1-DIMMB1/P1-DIMME1/P1-DIMMC1/ P1-DIMMF1/P2-DIMMA1/P2-DIMMB1/P1-DIMMD1/P1-DIMME1, P2-DIMMA1/ P2-DIMMB1/P2-DIMMD1/P2-DIMME1
2 CPUs & 12~16 DIMMs	CPU1 + CPU2 & P1-DIMMA1/P1-DIMMD1, P1-DIMMB1/P1-DIMME1, P1-DIMMC1/ P1-DIMMF1, P1-DIMMA2/P1-DIMMD2, P2-DIMMA1/P2-DIMMD1, P2-DIMMB1/P2-DIMME1, P2-DIMMC1/ P2-DIMMF1, P2-DIMMA2/ P2-DIMMD2

DDR4 Memory Support for the Intel Xeon Scalable Processor Platform

Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)		Speed (MT/s); Voltage (V); Slots per Channel (SPC) and DIMMs per Channel (DPC)	
				2 Slots per Channel	
		4 Gb	8 Gb	1DPC (1-DIMM per Channel)	2DPC (2-DIMM per Channel)
RDIMM	SRx4	4 GB	8 GB	2666	2666
RDIMM	SRx8	8 GB	16 GB	2666	2666
RDIMM	DRx8	8 GB	16 GB	2666	2666
RDIMM	DRx4	16 GB	32 GB	2666	2666
RDIMM 3Ds	QRX4	N/A	2H-64GB	2666	2666
	8RX4	N/A	4H-128GB	2666	2666
LRDIMM	QRx4	32 GB	64 GB	2666	2666
	QRX4	N/A	2H-64GB	2666	2666
LRDIMM 3Ds	8Rx4	N/A	4H-128 GB	2666	2666

DDR4 Memory Support for 2nd Gen Intel Xeon Scalable Processors Platform

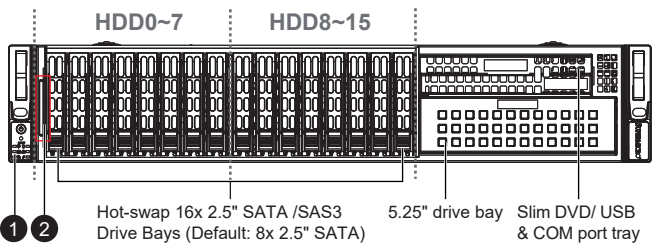
Type	Ranks Per DIMM and Data Width	DIMM Capacity (GB)			Speed (MT/s); Voltage (V); Slots per Channel (SPC) and DIMMs per Channel (DPC)	
					2 Slots per Channel	
		4 Gb	8 Gb	16 Gb	2DPC (2-DIMM per Channel)	1DPC (1-DIMM per Channel)
RDIMM	SRx4	4 GB	8 GB	16GB	2933	2933
RDIMM	SRx8	8 GB	16 GB	32GB	2933	2933
RDIMM	DRx8	8 GB	16 GB	32GB	2933	2933
RDIMM	DRx4	16 GB	32 GB	64GB	2933	2933
RDIMM 3Ds	QRX4	N/A	2H-64GB	2H-128GB	2933	2933
	8RX4	N/A	4H-128GB	4H-256GB	2933	2933
LRDIMM	QRx4	32 GB	64 GB	128GB	2666	2933
	QRX4	N/A	2H-64GB	2H-128GB	2933	2933
LRDIMM 3Ds	8Rx4	N/A	4H-128 GB	4H-256GB	2933	2933

Note: For detailed information on memory support and updates, please refer to the SMC Recommended Memory List posted on our website at <http://www.supermicro.com/support/resources/mem.cfm>.

Beep Codes

Beep Code/LED	Message	Description
1 beep	Refresh	Circuits have been reset. (Ready to power up)
5 short beeps + 1 long beep	Memory	No memory detected
5 long beeps + 2 short beeps	Display memory read/write status	Video adapter missing or with faulty memory
1 continuous beep	System	System overheat

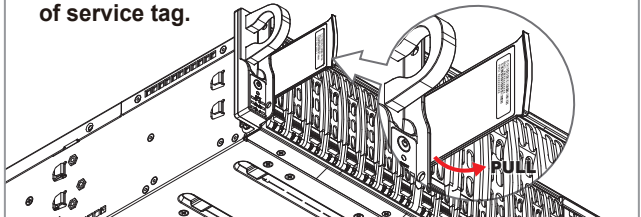
Front View & Interface



No.	Description
1	Front control panel
2	Service/Asset Tag, Pull-out identifier (with BMC ADMIN default password left side)
3	Hard Drive Signal
4	Hard Drive Fail
5	Power Button
6	Reset Button
7	Device Activity LED
8	LAN1 LED
9	Universal Information LED
10	Power LED
11	LAN2 LED
12	Power Failure LED

BMC Password Label

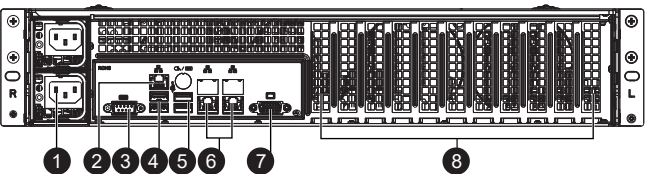
Pull-out tag with BMC unique password on the left side of service tag.



Each system comes with an 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. If necessary, the password can be reset by the Supermicro IPMICFG tool.

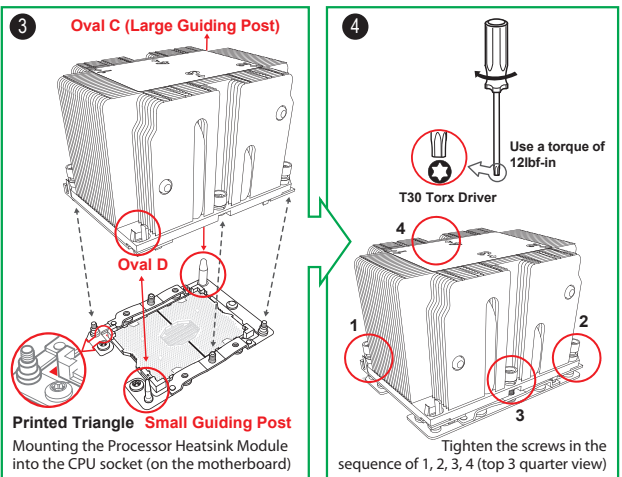
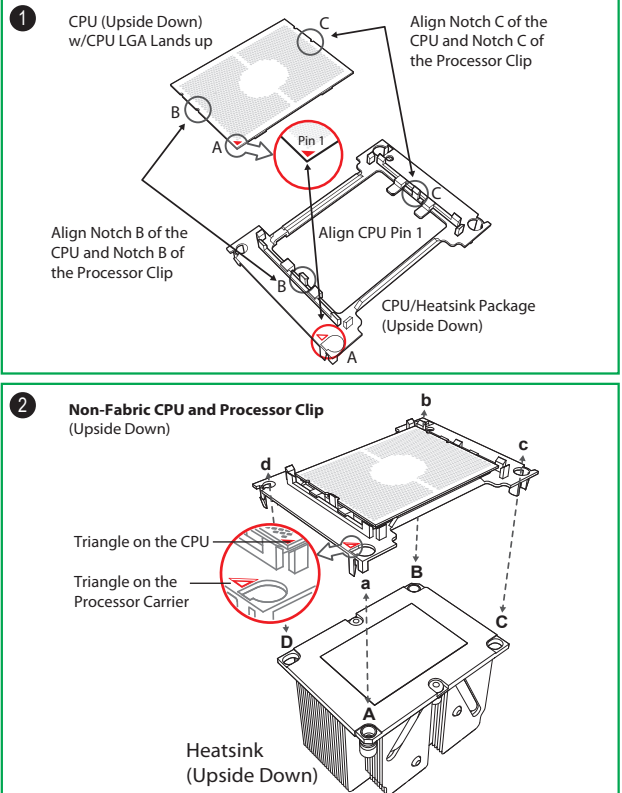
For more information, please visit <https://www.supermicro.com/en/solutions/management-software/bmc-resources>

Rear View



No.	Description	No.	Description
1	Redundant Power Supply Modules	5	USB 2.0 Ports
2	Dedicated LAN for IPMI	6	LAN 1/2 Ports
3	COM Port	7	VGA Port
4	USB 3.0 Ports	8	11 Standard PCI Slots

CPU Installation



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>

