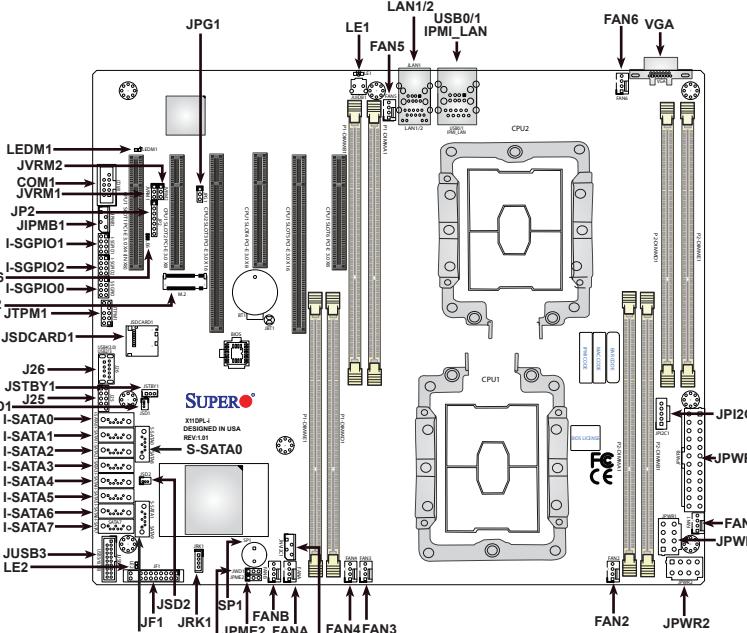
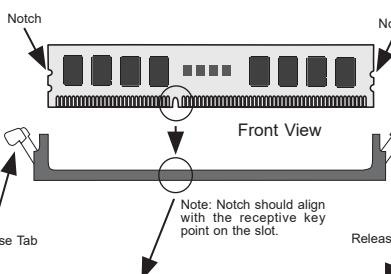
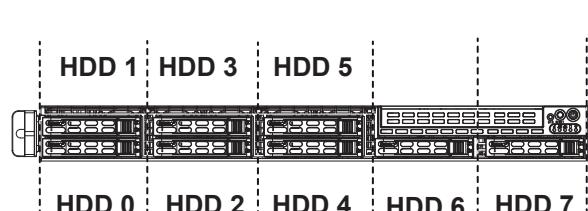
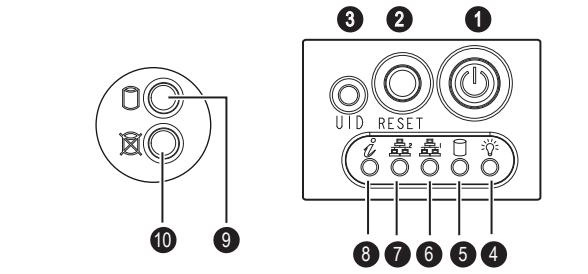
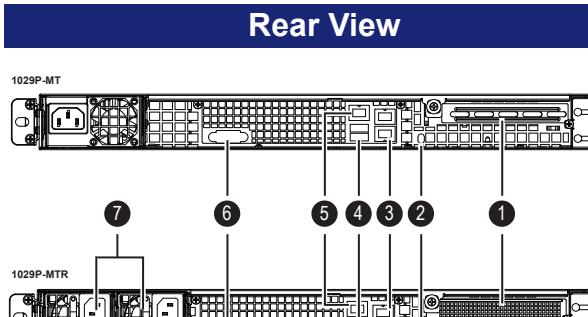


SUPERMICRO® SuperServer 1029P-MT/MTR Quick Reference Guide

Board Layout		
		
Jumpers and Connectors		
Jumper	Description	Default Setting
JBT1	Clear CMOS	Open (Normal)
JP1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPME2	Manufacturer (ME) Mode Select	Pins 1-2 (Normal)
JVRM1	VRM SMB Clock (to BMC or PCH)	Pins 1-2 (BMC, Normal)
JVRM2	VRM SMB Data (to BMC or PCH)	Pins 1-2 (BMC, Normal)
JWD1	Watch-Dog Timer	Pins 1-2 (Reset)
Connector	Description	
Battery (BT1)	Onboard COMS battery	
COM 1	Front Panel COM Port 1	
FAN 1~6	System cooling fan headers	
FAN/A/FANB	Thermal fan headers for I/O add-on cards	
JF1	Front Panel Control Header	
J25	USB 2.0 Header for USB Ports 2/3	
J26	USB 3.0 Type A port for USB4	
JPWR1/2	8-pin Power Connector	
JPWR3	24-pin Power Connector	
JPI2C1	Power Supply I2C Connector	
JS1/JS2	Power connector for SATA DOM	
JSTBY1	Wake On LAN Header	
IPMI_LAN	Dedicated IPMI LAN port	
JIPMB1	4-pin external BMC I2C header (for an IPMI card)	
JNVI2C1	NVMe I2C headers	
JRK1	RAID key for CPU NVMe SSD	
JSDCARD1	Micro SD Card slot	
JTPM1	Trusted Platform Module (TPM)/Port 80 connector	
M.2	M.2 Slot	
(I-)SATA0~3, 4~7	I-SATA 3.0 connectors supported by the Intel PCH	
(S-)SATA0/1	S-SATA 3.0 connectors supported by the Intel PCH	
SP1	Internal Speaker	
USB0/1	Back panel USB 3.0 ports	
VGA	VGA port	
LED	Description	Status
LE1	UID (Unit Identifier) LED	Solid Blue: Unit Identified
LE6	Onboard Power LED	Solid Red: Standby Solid Green: Power On
LEDM1	BMC Heartbeat LED	Blinking Green: BMC Normal

Memory		
		
Memory Population Table		
When 1 CPU is used:	Memory Population Sequence	
1 CPU & 1 DIMM	CPU1: P1-DIMMA1	
1 CPU & 2 DIMMs	CPU1: P1-DIMMA1/P1-DIMMD1	
1 CPU & 3 DIMMs (Unbalanced: not recommended)	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1	
1 CPU & 4 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/ P1-DIMME1	
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-DIMMD1 CPU2: P2-DIMMA1/P2-DIMMD1	
2 CPUs & 6 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/ P1-DIMME1 CPU2: P2-DIMMA1/P2-DIMMD1	
2 CPUs & 8 DIMMs	CPU1: P1-DIMMA1/P1-DIMMB1/P1-DIMMD1/ P1-DIMME1 CPU2: P2-DIMMA1/P2-DIMMB1/P2-DIMMD1/ P2-DIMME1	
Beep Codes		
Beep Code	Error Message	Description
1 short	Refresh	Circuits have been reset (Ready to power up)
5 short, 1 long	Memory error	No memory detected in the system
5 long, 2 short	Display memory read/write error	Video adapter missing or with faulty memory
1 long continuous	System OH	System overheat condition

Front View & Interface		
		
		
No. Description		
1	Power Button	
2	Reset Button	
3	UID LED	
4	Power LED	
5	Device Activity LED	
6	NIC1 LED	
7	NIC2 LED	
8	Information LED	
9	Hard Drive Signal	
10	Hard Drive Fail	
Rear View		
		
No. Description		
1	1 PCI-E 3.0 x8 FH Expansion Slot	
2	UID Button	
3	2 RJ45 GbE LAN Ports	
4	2 USB Ports	
5	1 Dedicated IPMI LAN Port	
6	VGA Port	
7	Redundant Platinum Level Power Supplies	

CPU Installation		
<ol style="list-style-type: none"> Locate pin 1 (A), which is the triangle on the top of the narrow processor clip. Also locate notch B and notch C (and D for -F models) on the processor clip. Locate pin 1 (A), which is the triangle on the underside of the CPU. Also, locate notch B and notch C (and notch D for -F models) on the CPU as shown below. Align pin 1 of the CPU with pin 1 of the narrow processor clip. Once they are aligned, carefully insert the CPU into the processor clip by sliding notch B of the CPU into notch B of the processor clip, and sliding notch C of the CPU into notch C of the processor clip (and D for -F models). Examine all corners of the CPU to ensure that it is properly seated and secure on the processor clip. 		
Attaching the Non-F Model Processor Carrier Assembly to the Heatsink to Form the Processor Heatsink Module (PHM)		
<img alt="Diagram showing the attachment of the Non-F Model Processor Carrier Assembly to the Heatsink to Form the Processor Heatsink Module (PHM). Step 1: Align Notch C of the CPU and Notch C of the Processor Clip. Step 2: Align Notch B of the CPU and Notch B of the Processor Clip. Step 3: Align CPU Pin 1. Step 4: Align Notch A of the CPU and Notch A of the Processor Clip. Step 5: Align Notch B of the CPU and Notch B of the Processor Clip. Step 6: Align Notch C of the CPU and Notch C of the Processor Clip. Step 7: Align Notch D of the CPU and Notch D of the Processor Clip. Step 8: Align Notch E of the CPU and Notch E of the Processor Clip. Step 9: Align Notch F of the CPU and Notch F of the Processor Clip. Step 10: Align Notch G of the CPU and Notch G of the Processor Clip. Step 11: Align Notch H of the CPU and Notch H of the Processor Clip. Step 12: Align Notch I of the CPU and Notch I of the Processor Clip. Step 13: Align Notch J of the CPU and Notch J of the Processor Clip. Step 14: Align Notch K of the CPU and Notch K of the Processor Clip. Step 15: Align Notch L of the CPU and Notch L of the Processor Clip. Step 16: Align Notch M of the CPU and Notch M of the Processor Clip. Step 17: Align Notch N of the CPU and Notch N of the Processor Clip. Step 18: Align Notch O of the CPU and Notch O of the Processor Clip. Step 19: Align Notch P of the CPU and Notch P of the Processor Clip. Step 20: Align Notch Q of the CPU and Notch Q of the Processor Clip. Step 21: Align Notch R of the CPU and Notch R of the Processor Clip. Step 22: Align Notch S of the CPU and Notch S of the Processor Clip. Step 23: Align Notch T of the CPU and Notch T of the Processor Clip. Step 24: Align Notch U of the CPU and Notch U of the Processor Clip. Step 25: Align Notch V of the CPU and Notch V of the Processor Clip. Step 26: Align Notch W of the CPU and Notch W of the Processor Clip. Step 27: Align Notch X of the CPU and Notch X of the Processor Clip. 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