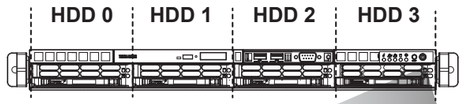
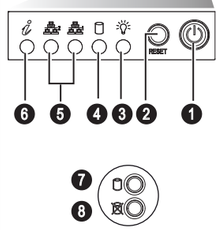
SUPERMICRO® SuperServer 5019S-M/MR-G1585L Quick Reference Guide

Front view & Interface

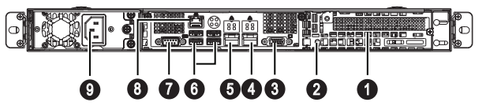


No.	Description
1	Power Button
2	Reset Button
3	Power LED
4	Device Activity LED
5	LAN1 LED & LAN2 LED
6	Information LED
7	Hard Drive Signal
8	Hard Drive Fail

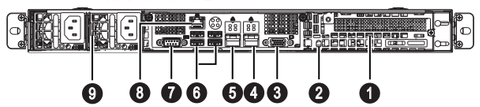


Rear View

5019S-M-G1585L



5019S-MR-G1585L



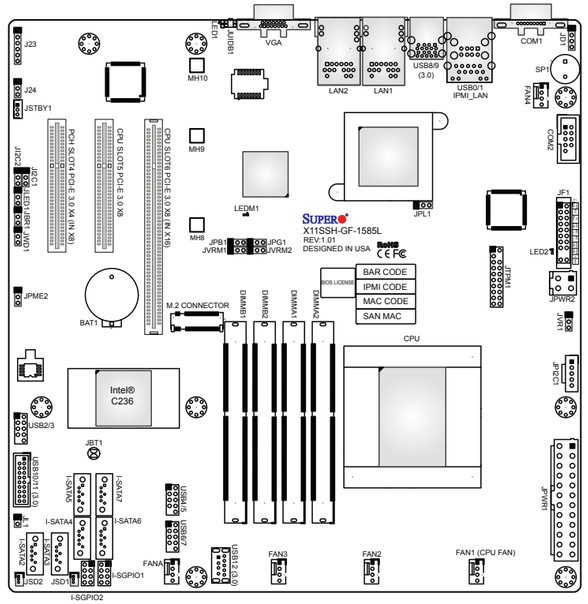
No.	Description
1	PCI-E Expansion Slot (w/riser card)
2	UID
3	VGA Port
4	GbE LAN2 Port
5	GbE LAN1 Port
6	USB 4/5/6/7 Ports
7	COM1 Port
8	Dedicated LAN for IPMI
9	Single/Redundant Power Supply Module

Beep Codes

BIOS Error Beep Codes

Beep Code/LED	Error Message	Description
1 beep	Refresh	Circuits have been reset. (Ready to power up)
5 short beeps + 1 long beep	Memory error	No memory detected in the system
8 beeps	Display memory read/write error	Video adapter missing or with faulty memory
OH LED On	System OH	System Overheat

Board Layout



Jumpers and Connectors

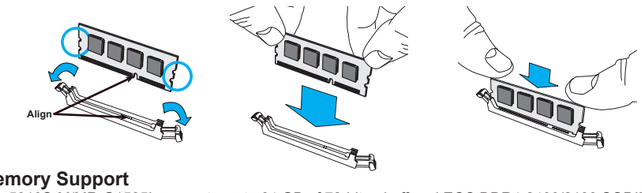
Connector	Description
BAT1	Onboard Battery
COM1/COM2	Serial COM Ports
FAN1 ~ FAN4, FANA	System/CPU Fan Headers (FAN1: CPU Fan)
IPMI_LAN	Dedicated IPMI LAN Port
I-SATA2 ~ I-SATA7	Intel® PCH SATA 3.0 Ports
I-SGPIO1/I-SGPIO2	Serial Link General Purpose I/O Headers
JD1	Power LED/Speaker Header (Pins 1-3: Power LED, Pins 1-4: Speaker)
JF1	Front Control Panel Header
JL1	Chassis Intrusion Header
JPI²C1	Power Supply SMBus I²C Header
JPWR1	24-pin ATX Power Connector
JPWR2	4-pin CPU Power Connector
JSD1/JSD2	SATA DOM Power Connectors
JSTBY1	Standby Power Header
JTPM1	Trusted Platform Module/Port 80 Connector
JUIDB1	Unit Identifier Switch
JVR1	SMB Programmable Header (for debugging only)
LAN1 ~ LAN2	LAN (RJ45) Ports
M.2	M.2 Slot
SLOT4	PCI-Express 3.0 x4 (in x8) Slot supported by Intel PCH

Jumpers and Connectors

Connector	Description
SLOT5	PCI-Express 3.0 x8 Slot supported by the CPU
SLOT6	PCI-Express 3.0 x8 (in x16) Slot supported by the CPU
SP1	Internal Speaker/Buzzer
USB0/1	Back Panel Universal Serial Bus (USB) 2.0 Port
USB2/3, 4/5, 6/7	USB 2.0 Header
USB8/9	Back Panel Universal Serial Bus (USB) 3.0 Port
USB10/11	USB 3.0 Header
USB12	USB 3.0 Type A Header
VGA	Back Panel VGA Port

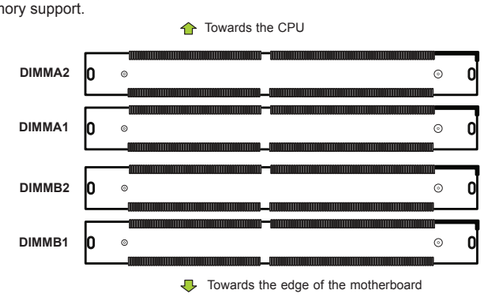
Jumper	Description	Default Setting
JBR1	BIOS Recovery	Pins 1-2 (Normal)
JBT1	CMOS Clear	Open (Normal)
JI²C1/JI²C2	SMB to PCI-E Slots Enable/Disable	Pins 2-3 (Disabled)
JLED1	Power LED Enable/Disable	Pins 1-2 (Enabled)
JPB1	BMC Enable/Disable	Pins 1-2 (Enabled)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPL1	LAN1/2 Enable/Disable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	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	Pins 1-2 (Reset)

MEMORY



Memory Support

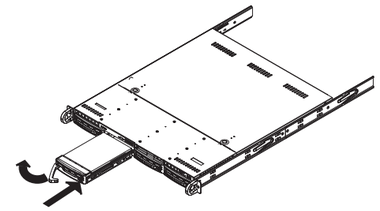
The 5019S-M/MR-G1585L supports up to 64 GB of 72-bit unbuffered ECC DDR4-2400/2133 SODIMM memory in four memory slots. Populate the slots with with memory modules of the same type and speed; mixing of memory modules of different types and speeds is not allowed. Check the Supermicro website for possible updates to memory support.



DIMM Module Population Sequence

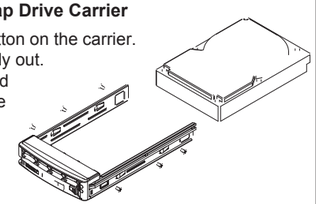
When installing memory modules, the DIMM slots should be populated in the following order: DIMMA1, DIMMB1, DIMMA2 and DIMMB2.

Serial ATA Drive Installation



Removing a Hot-Swap Drive Carrier

1. Push the release button on the carrier.
2. Swing the handle fully out.
3. Grasp the handle and use it to pull the drive carrier out of its bay.



Mounting a Drive in a Drive Carrier

1. To add a new drive, install it into the carrier with the printed circuit board side facing down so that the mounting holes align with those in the carrier.
2. Secure the drive to the carrier with the screws provided, then push the carrier completely into the drive bay. You should hear a *click* when the drive is fully inserted. This indicates that the carrier has been fully seated and connected to the midplane, which automatically makes the power and logic connections to the hard drive.

Hard Drive Carrier Indicators

Hard Drive Carrier LED Indicators

LED	State/Condition	Indication
Green	Blinking	Indicates drive activity
Red	Solid on	Drive failure

Note: Enterprise level hard disk drives are recommended for use in Supermicro chassis and servers. For information on recommended HDDs, visit the Supermicro website at http://www.supermicro.com/products/nfo/files/storage/SBB-HDDCompList.pdf

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