SUPERMICRO®

M11SDV-4C/4CT/8C/8CT/8C+-LN4F

Quick Reference Guide 1.0b

Contact Information

- Website: www.supermicro.com
- General Information: marketing@supermicro.com
- Technical Support: support@supermicro.com
- Phone: +1 (408) 503-8000, Fax: +1 (408) 503-8008

For your system to work properly, please download appropriate drivers/images/user's manual from the links below:

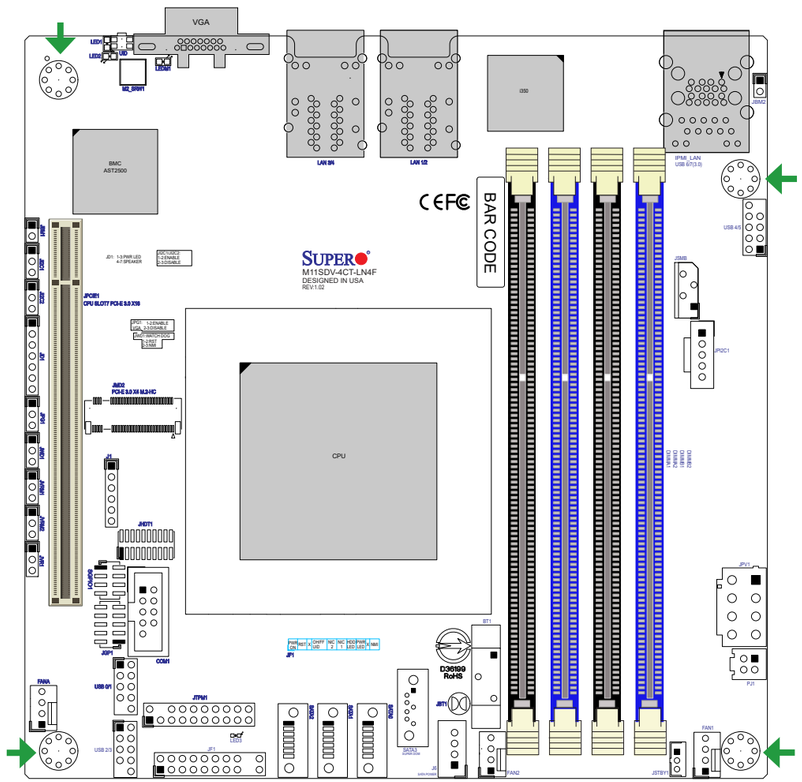
- Manuals: http://www.supermicro.com/support/manuals
- Drivers & Utilities: https://www.supermicro.com/wftp/driver/
- Safety: http://www.supermicro.com/about/policies/safety_information.cfm

Single /Retail Package Contents

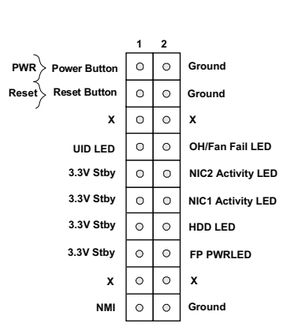
- One (1) Supermicro Motherboard
- One (1) Quick Reference Guide
- Four (4) SATA Data Cables
- One (1) SATA Power Cable
- One (1) 24pin ATX to 4pin Power
- One (1) I/O Shield

WARNING: This product can expose you to chemicals including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

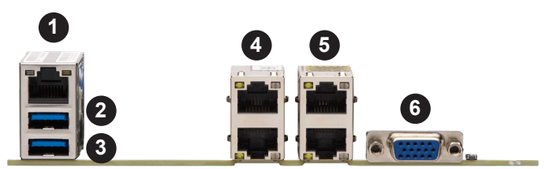
Motherboard Layout and Features



Front Control Panel (JF1)



Back Panel I/O Connectors



#	Description	#	Description	#	Description
1	IPMI LAN	3	USB6	5	LAN3/4
2	USB7	4	LAN1/2	6	VGA

Jumpers and Connectors

Jumpers

Jumper	Description	Default
JBM1	Disable Share LAN	Pin 1-2 Open (Enable)
JBM2	Disable IPMI/Share LAN	Pin 1-2 Open (Enable)
JBT1	CMOS Clear	Open: Normal, Closed: Clear CMOS
JI²C1, JI²C2	SMB to PCI-E Slots Enable/Disable	Pins 2-3 (Disabled)
JPG1	Onboard VGA Enable/Disable	Pins 1-2 (Enabled)
JVRM1	VRM SMB Clock (to BMC or PCH)	Pins 1-2 (Normal)
JVRM2	VRM SMB Data (to BMC or PCH)	Pins 1-2 (Normal)
JWD1	Watch Dog Timer	Pins 1-2 (Reset)

Connectors

Connector	Description
BT1	Onboard Battery
COM1	RS232 COM Header
FAN1 - FAN2, FANA	CPU/System Fan Connectors
IPMI_LAN	Dedicated IPMI LAN Port
JD1	Pins 1-3: PWR LED, Pin 4-7: Speaker
JF1	Front Control Panel Header
JGP1	8-bit General Purpose I/O Header
JMD2	M.2 Slot 2280 M-key (PCIe x4/SATA3.0)
JPCIE1	PCI-E 3.0 x 16 Slot
JPI²C1	Power I²C System Management Bus (Power SMB) Header
JPV1	8-pin 12V DC Power Input (Required for 12V only or 24-pin ATX power)
JSMB	System Management Bus Header
JSTBY1	Standby Power Connector
JTPM1	Trusted Platform Module (TPM)/Port 80 Connector
LAN1 - LAN4	1 GbE LAN (RJ45) Ports
PJ1	Header for ATX Power Signal 5VSTBY/Power ON/Power Good/ Ground; 24pin ATX to 4pin power cable for PJ1 (Supermicro P/N: CBL-PWEX-1063)
SATA0 - SATA3	SATA 3.0 Ports
UID	Unit Identifier Switch
USB0-5	USB 2.0 Header (USB2.0 X 6)
USB6/7	Back Panel USB 3.0 Ports
VGA	VGA Port (back panel)

LED Indicators

LED	Description	Status
LED1	UID LED	Solid Blue: Unit Identified
LED2	Overheat (OH)/PWR Fail/Fan Fail LED	Solid Red: Overheat Blinking Red: PWR Fail or Fan Fail
LED3	Power LED	Solid Green: Power On
LEDM1	BMC Heartbeat	Blinking Green: BMC Normal

CPU Support

The Supermicro M11SDV-4C/4CT/8C/8CT/8C+-LN4F motherboard supports an AMD EPYC™ 3000 SOC series processor with up to 8 cores and 16 threads per socket.

Model	CPU AMD EPYC	Core	Threads	TDP(W)	Heatsink
M11SDV-8C+-LN4F	3251	8	16	55	active Fan
M11SDV-8C-LN4F	3251	8	16	55	passive
M11SDV-8CT-LN4F	3201	8	8	30	passive
M11SDV-4C-LN4F	3151	4	8	45	passive
M11SDV-4CT-LN4F	3101	4	4	35	passive

Memory Support

The M11SDV-4C/4CT/8C/8CT/8C+-LN4F motherboard supports DDR4 2666MHz ECC/Non ECC RDIMM, UDIMM, and LRDIMM memory in 4 DIMM slots.

Note: When the motherboard is populated with 4 modules and a specified memory type, memory speed will vary.

Modules	Memory Type	Memory Speed (MHz)
4	2S4R/4DR DDR4 LRDIMM	2133
4	single rank DDR4 RDIMM	2133
4	2R/2DR/2S2R/2S4R DDR4 RDIMM	1866
4	single rank DDR4 UDIMM	2133
4	2R/2DR DDR4 UDIMM	1866

DIMM Memory Installation

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

- Always use DDR4 DIMM modules of the same type, size, and speed.
- Mixed DIMM speeds can be installed. However, all DIMMs will run at the speed of the slowest DIMM.
- The motherboard will support odd-numbered modules (one or three modules installed). However, for best memory performance, install DIMM modules in pairs to activate memory interleaving.

Memory Population (Balanced)				
DIMMA1	DIMMB1	DIMMA2	DIMMB2	Total System Memory
		4GB	4GB	8GB
		8GB		8GB
		8GB	8GB	16GB
4GB	4GB	4GB	4GB	16GB
8GB		8GB	8GB	24GB
8GB	8GB	8GB	8GB	32GB
		16GB	16GB	32GB
16GB		16GB	16GB	48GB
16GB	16GB	16GB	16GB	64GB
		32GB	32GB	64GB
32GB		32GB	32GB	96GB
32GB	32GB	32GB	32GB	128GB
		64GB	64GB	128GB
64GB		64GB	64GB	192GB
64GB	64GB	64GB	64GB	256GB
		126GB	126GB	256GB
128GB	128GB	128GB	128GB	512GB

Note: Graphics shown in this quick reference guide are for illustration only. Your components may or may not look exactly the same as drawings shown in this guide.

Note: Refer to Chapter 2 of the User Manual for detailed information on jumpers, connectors, and LED indicators.

Note: Refer to Chapter 2 of the User Manual for detailed information on memory support and CPU/ motherboard installation instructions.

© 2019 Supermicro Computer Inc. All rights reserved. Reproduction of this document whether in part or in whole is strictly prohibited without consent. All Trademarks are property of their respective entities. All information provided is deemed accurate at the time of printing; however, it is not guaranteed.

MNL-2172-QRG-10b