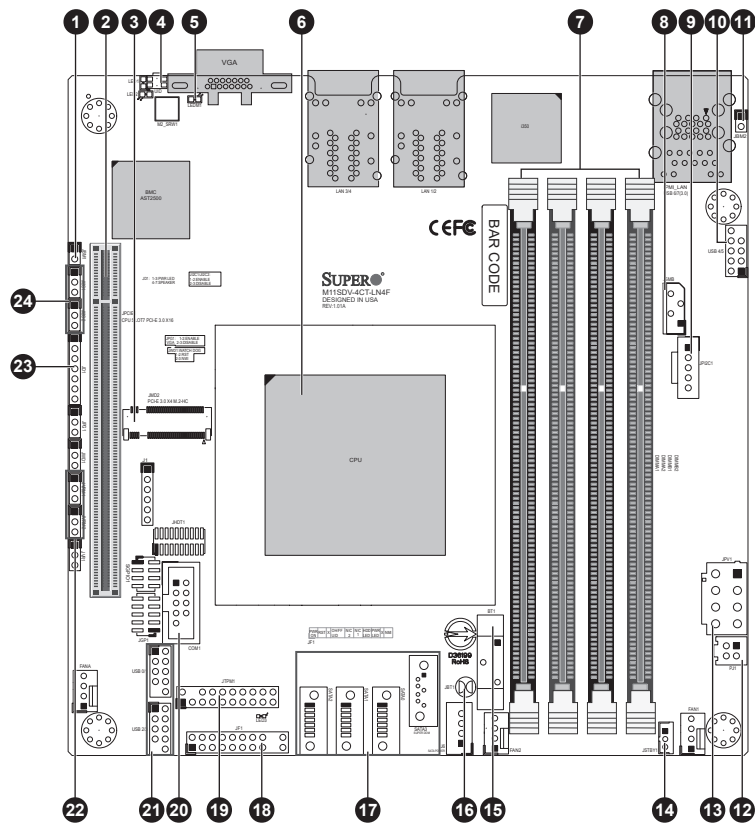


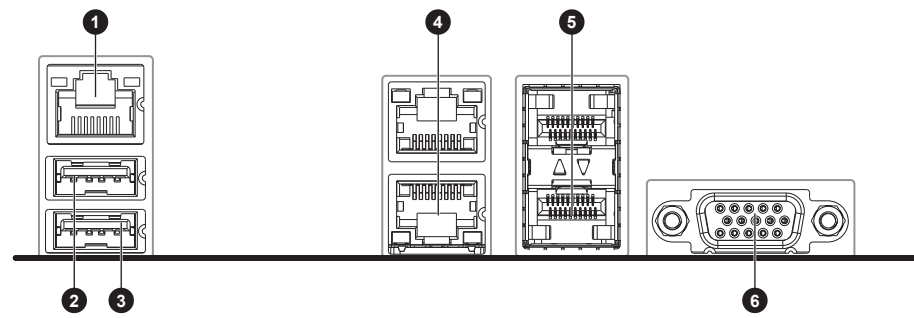
SUPERMICR[®] A+ Server E301-9D-8CN4 Quick Reference Guide

Board Layout



No.	Description
1	Disable Share LAN
2	PCI-E 3.0 x16 slot
3	M.2 M-key slot for SATA 3.0 or PCI-E x4 in the 2280 form factor
4	Unit Identifier Switch
5	BMC Heartbeat
6	CPU
7	DIMMA1~DIMMA2, DIMMB1~DIMMB2
8	System Management Bus Header
9	Power I ² C System Management Bus (Power SMB) Header
10	USB 2.0 Headers
11	Disable IPMI/Share LAN
12	Header for ATX Power Signal 5VSTBY/Power ON/Power Good/ Ground; 24-pin ATX to 4-pin power cable for PJ1
13	8-pin 12V DC Power Input (required for 12V only or 24-pin ATX power)
14	Standby Power Connector
15	Onboard Battery
16	CMOS Clear
17	SATA0~SATA3 3.0 Ports
18	Front Control Panel Header
19	Trusted Platform Module (TPM)/Port 80 Connector
20	RS232 COM Port Header
21	USB 2.0 Headers
22	VRM SMB Data to the BMC or the PCH
23	Pins 1-2: PWR LED, Pins 4-7: Speaker
24	SMB to PCI-E slots Enable/Disable

Rear I/O Ports

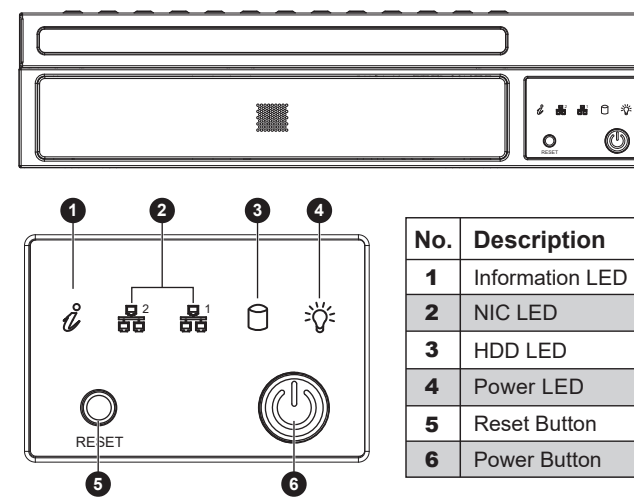


No.	Description	No.	Description
1	IPMI LAN Port	6	LAN 1/2 Ports
2	USB 7 Port	7	LAN 3/4 Ports
3	USB 6 Port	8	VGA Port

System Features

Motherboard	Chassis
M11SDV-8C-LN4F	SCE301
CPU	Chipset
AMD EPYC™ 3251 SoC	System on Chip
BIOS	
128Mb AMIBIOS® SPI Flash BIOS UEFI 2.6, ACPI 6.1, PCI FAV 3.0, SMBIOS 3.1, SPI dual/quad speed support, Real Time Clock (RTC) wakeup	
Memory	
Supports DDR4 ECC/Non-ECC RDIMM, UDIMM, and LRDIMM memory in 4 DIMM slots, with a memory capacity of up to 512GB and an operating speed of up to 2666 MHz. Note: When the motherboard is populated with 4 modules of 2S4R/4DR DDR4 LRDIMM, the memory speed will operate at 2133MHz. When the motherboard is fully populated with 4 modules of single rank DDR4 RDIMM, the memory speed will operate at 2133MHz. When the motherboard is fully populated with 4 modules of 2R/2DR/2S2R/2S4R DDR4 RDIMM, the memory speed will operate at 1866MHz. When the motherboard is fully populated with 4 modules of single rank DDR4 UDIMM, the memory speed will operate at 2133MHz. When the motherboard is fully populated with 4 modules of 2R/2DR DDR4 UDIMM, the memory speed will operate at 1866MHz.	
Expansion Slots	
One PCI-E 3.0 x 16 slot One M.2 slot (M-Key for NVMe in 2242/80 form factor)	
Storage Drives	
Supports two 2.5" drives of 15 mm thickness or four 2.5" drives of 9.5 mm height	
Power	
12V DC 150W lockable power adapter	
Input/Output Ports	
One dedicated IPMI LAN port Four 1GbE LAN ports One VGA via BMC Two USB 3.0 ports Six USB 2.0 headers	One COM header One M.2 connector Four SATA 3.0 connectors One TPM 2.0 header
Cooling	
Two 40 x 28 mm 4-pin PWN fans, one optional 40 x 28 mm 4-pin PWN fan, one passive CPU heat sink	
Dimensions	
10" (W) x 2.6" (H) x 8.9 (D) (254 x 66 x 226 mm)	

Front View & Interface

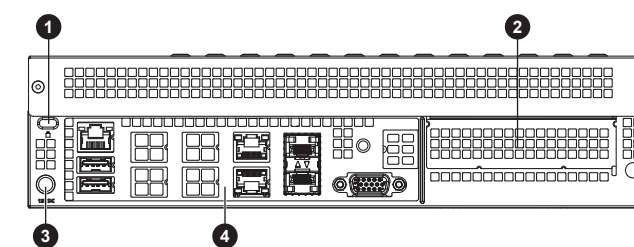


No.	Description
1	Information LED
2	NIC LED
3	HDD LED
4	Power LED
5	Reset Button
6	Power Button

Information LED

Status	Description
Continuously on and red	An overheat condition has occurred. (This may be caused by able congestion.)
Blinking red (1Hz)	Fan failure, check for an inoperative fan.
Blinking red (0.25Hz)	Power failure, check for a non-operational power supply.
Solid blue	Local UID has been activated. Use this function to locate the server in a rack mount environment.
Blinking blue	Remote UID is on. Use this function to identify the server from a remote location.

Rear View



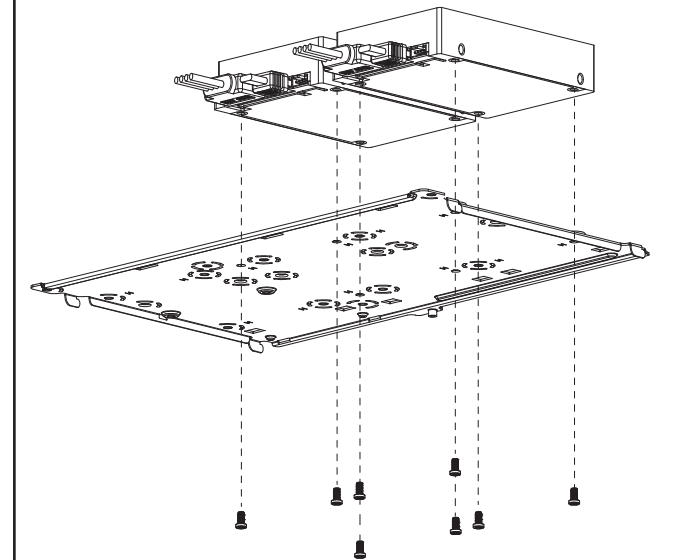
Information LED

Item	Features	Description
1	K-slot for lock	Local UID has been activated. Use this function to locate the server in a rack mount environment.
2	PCI window	Power failure, check for a non-operational power supply.
3	Power Input	The main power switch applies or removes primary power from the power supply to the server but maintains standby power. To perform most maintenance tasks, unplug the system to remove all power.
4	I/O ports	Fan failure, check for an inoperative fan.

Drive Device Bays

Installing the Hard Drive

- The motherboard should be installed before installing the drive(s).
1. Make sure there is no power to the system as described in section 2.1 and remove the chassis cover.
 2. See Section 2.2 for instructions on how to remove the top cover.
 3. Remove the four standoffs and one screw that are securing the hard drive tray as shown above.
 4. Place up to two 15 mm 2.5" drives directly into the tray and secure it to the tray with the screws provided with the drive.



Installing 15 mm 2.5" Hard Drives

Beep (POST) Codes

BIOS Beep (POST) Codes

Beep Code	Description
1 beep	Circuits have been reset (Ready to power up)
5 short, 1 long	No memory detected in system
5 long, 2 short	Video adapter missing or with faulty memory
1 long continuous	System overheat condition

* Sound of Beep code would be available from connecting JD1/Speaker PIN Header 4-7

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.

WARNING:
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>

