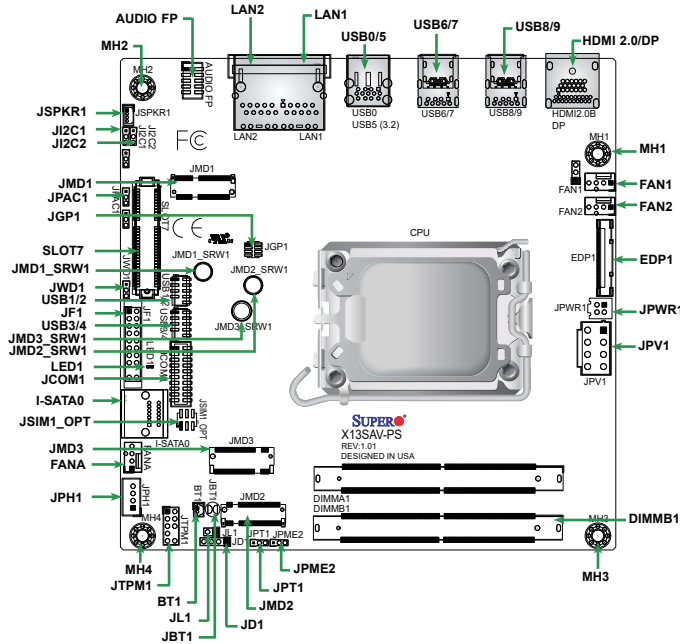


SUPERMICR® SuperServer E302-13AD Series Quick Reference Guide

Board Layout



Quick Reference Table

Jumper	Description	Default Setting
JBT1	CMOS Clear	Open (Normal)
JI2C1, JI2C2	SMB to PCIe Slots Enable/Disable	Pins 2-3 (Disabled)
JPAC1	Audio Enable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)
JPT1	Onboard TPM Module Enable/Disable SIM DETECT	Pins 1-2 (Enabled) Pins 2-4 (Low active) Pins 2-4 Open (High Active)
JSIM1_OPT	SIERRA LTE IF-SEL	Pins 1-3 (USB) Pins 1-3 Open (PCIe) Pins 5-6 (Enabled LED Function) Pins 5-6 Open (Disabled LED Function)
JWD1	Watch Dog Timer	Pins 1-2 (Reset)
LED	Description	Status
LED1	Power LED	Solid Green: Power On Blinking Green: S3 Status

Connector	Description
AUDIO FP	Front Panel Audio Ports (Line Out/Mic In)
BT1	CMOS Battery Header
FAN1 – FAN2, FANA	Fan Headers
HDMI2.0/DP	High Definition Multimedia Interface 2.0 and DisplayPort
I-SATA0	SATA 3.0 Port
JCOM1	COM Header (supports RS-232/422/485)
JD1	Buzzer (Pins 1-4: Buzzer)
JF1	Front Control Panel Header
JGP1	General Purpose I/O Header
JL1	Chassis Intrusion Header
JMD1	M.2 E-Key PCIe 3.0 x1/USB 2.0 (2230 form factor)
JMD2	M.2 M-Key PCIe 3.0 x1 (2280 form factor)
JMD3	M.2 B-Key PCIe 3.0 x1/USB2.0/USB 3.0 (3052 form factor)
JMD1_SRW1 JMD2_SRW1 JMD3_SRW1	M.2 Holding Screws
JPH1	4-pin Storage Drive Power Connector
JPV1	8-pin 12 VDC Power Connector for CPU (required) or alternative single power input for when the 24-pin ATX power is not in use
JPWR1	Header for ATX Power Signal 5VSTBY/Power ON/Power GOOD/Ground
JSPKR1	Speaker Header (supports up to 2 W)
JTPM1	Trusted Platform Module/Port 80 Connector
LAN1, LAN2	2.5 GbE LAN Ports
MH1–MH4	Mounting Holes
SLOT7	PCIe 4.0 x4 Slot
USB0	Back Panel USB 2.0 Port
USB1/2, 3/4	Front Accessible USB 2.0 Ports
USB5/6/7/8/9	Front Accessible USB 3.2 Gen 2 x1 Ports (USB6/8: DisplayPort/USB3.2)

System Features

Processors
Supports an Intel® 12th Gen Core i3/i5/i7/Celeron UL or HL series, and Celeron processors up to 65 W in an LGA1700 socket
Note: A maximum of five CPU replacements may be performed without an SPI re-flash/replacement needed.

Chipset
Intel® SoC

BIOS
256 Mb AMI BIOS® SPI Flash BIOS
ACPI 6.0, Plug and Play (PnP), SPI dual/quad speed support, and Real Time Clock (RTC) wake up

Memory
Up to 32 GB of DDR5 Non-ECC SODIMM memory with speeds of up to 4800 MT/s in one memory slot

Storage Drives
Supports one 2.5" drive of 7-mm height

PCI Expansion Slots
One M.2 B-Key (3052) & Nano SIM slot (USB3.0/USB2.0/PCIe x2)
One M.2 M-Key (2280), support NVMe (PCIe x4 only)
One M.2 E-Key (2230) (USB2.0/PCIe x1)

Input/Output
Three USB 3.2 Gen2 ports
One USB 2.0 port
Two 2.5 GbE LAN ports
Four Independent Displays: one DisplayPort 1.4, one HDMI, two USB Type-C (support DisplayPorts)

Motherboard
X13SAV-PS, 6.7" (W) x 6.7" (L) (170.18 mm x 170.18 mm)

Chassis
CSE-E302iL3; Compact: 11.6" x 3" x 8.1" (295 x 76 x 206 mm) (W x H x D)

Weight
Net Weight: 8 lbs (3.63 kg)
Gross Weight: 12 lbs (5.44 kg)

System Cooling
Fanless

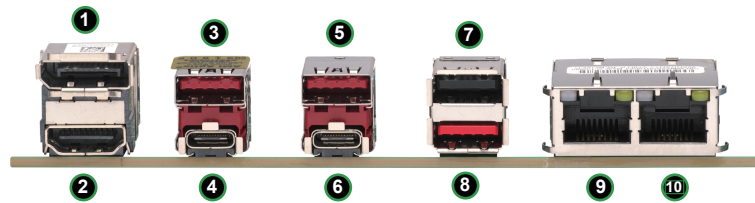
Power Supply
150 W 12 V Lockable DC Power Adapter (Optional: 180 W 12 V Lockable DC Power Adapter)

Operating Environment
Operating Temperature: 0° to 40°C (32° to 104° F)
Non-operating Temperature: -40° to 70°C (-40° to 158° F)
Operating Relative Humidity: 8% to 90% (non-condensing)
Non-operating Relative Humidity: 5% to 95% (non-condensing)

Regulatory Compliance
FCC, ICES, CE, VCCI, RCM, UKCA, NRTL, CB

Applied Directives, Standards

Rear I/O Ports



Rear I/O Ports			
#	Description	#	Description
1	DisplayPort	5	USB7 (3.2)
2	HDMI 2.0	6	USB6 (Type C)
3	USB9 (3.2)	7	USB0 (2.0)
4	USB8 (Type C)	8	USB5 (3.2)
		9	2.5 GbE LAN1
		10	2.5 GbE LAN2

Caution

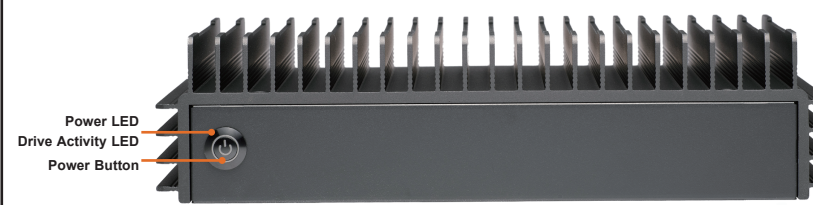
SAFETY INFORMATION
IMPORTANT: See installation instructions and safety warning before connecting system to power supply.
http://www.supermicro.com/about/policies/safety_information.cfm

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.

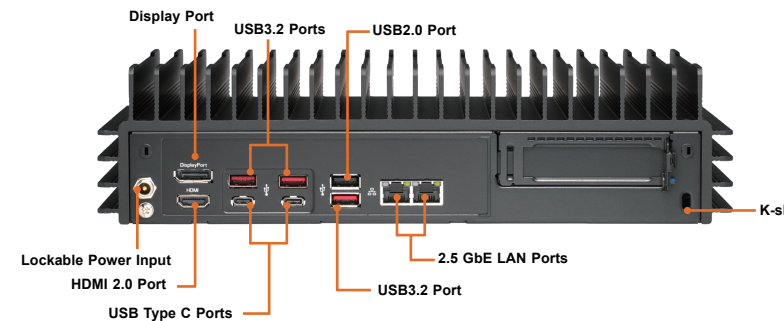
For more information go to: <http://www.supermicro.com/support>

Front View & Interface



System Features: Front	
Feature	Description
Power Button	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.
Power LED and Drive Activity LED	Indicates power is being supplied to the system power supply units. This LED is illuminated when the system is operating normally. Indicates storage disk drive activity when flashing.

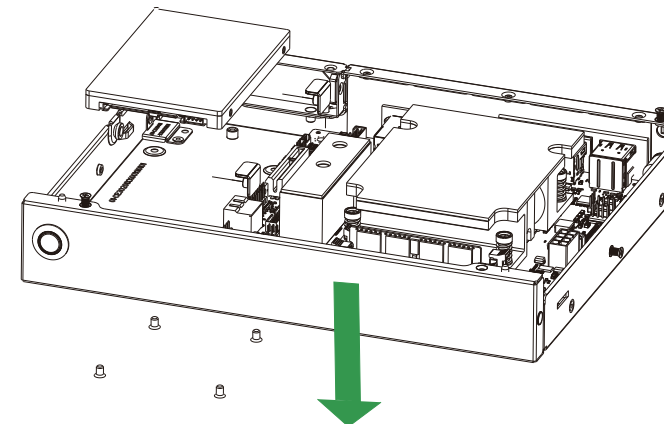
Rear Features



System Features: Rear	
Feature	Description
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.
HDMI 2.0 Port	One HDMI port
USB Type C Ports	Two USB3.0 Type C ports
USB3.2 Ports	Three USB3.2 ports
LAN Port	Two RJ45 2.5 GbE (Intel® i225-LM) ports
Display Port	One DisplayPort 1.4
USB2.0	One USB2.0 port
K-slot for lock	Accepts a standard Kensington cable locking device (not included).

Installing the Hard Drive

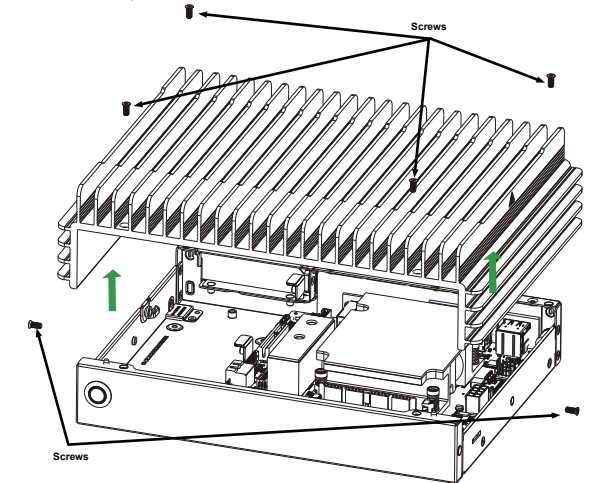
The can accommodate one fixed 2.5" storage drive of 7-mm height, installed to the chassis bottom.



Accessing the System

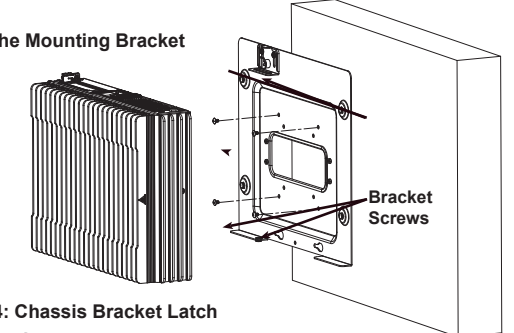
Removing the Chassis Cover Removing the Bottom Cover

1. Power down the system.
2. Remove the six screws that hold the cover in place.
3. Lift the cover up and off the chassis.

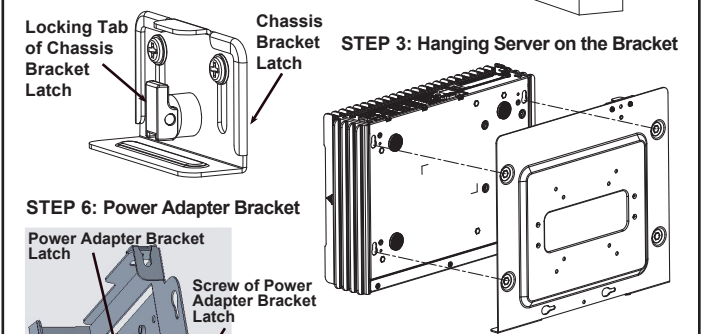


Mounting Bracket and Wall Mounting

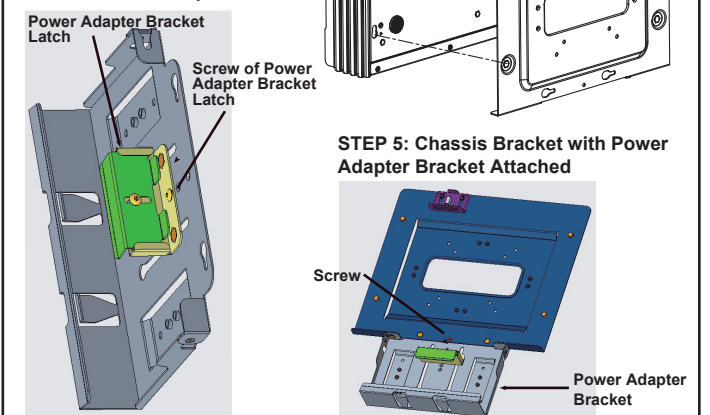
STEP 1: Installing the Mounting Bracket



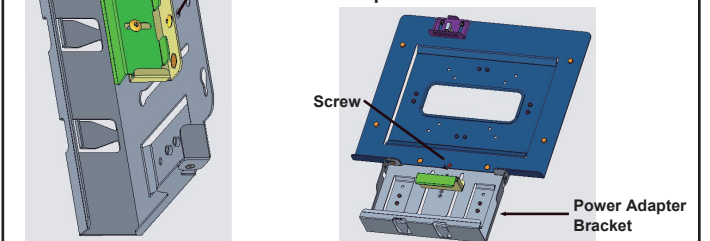
STEP 2 & 4: Chassis Bracket Latch



STEP 6: Power Adapter Bracket



STEP 5: Chassis Bracket with Power Adapter Bracket Attached



1. Install the mounting bracket to the wall by using four screws.
2. Unlock the latch on the top of chassis bracket and slide the latch upward.
3. Hang the server system on the mounting bracket hooking the four keyholes on four knobs of the bracket.
4. Secure the server system to the bracket by sliding the latch back down and flipping tab to lock.
5. Additional power adapter bracket on the bottom of the chassis bracket.
6. Secure the power adapter by lowering the latch and tightening the screw.

