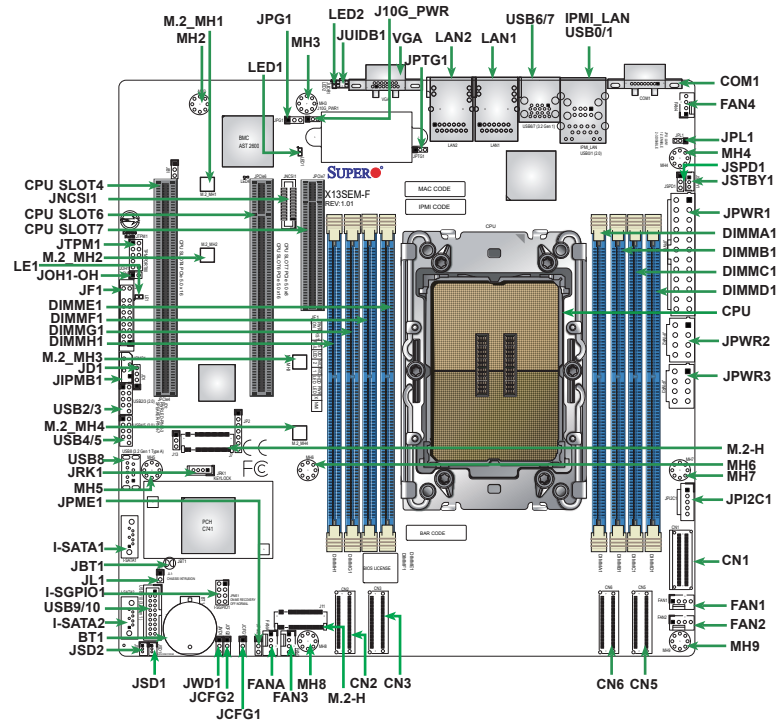


SUPERMICR[®] SuperServer 211E-FRN2T/FRDN2T Quick Reference Guide

Board Layout



Jumper	Description	Default Setting
JB1	CMOS Clear	Open (Normal)
JCFG1, JCFG2	SATA/PCIe Flex I/O for CN1	Pins 1-2 (SATA)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPL1	LAN1 and LAN2 Enable/Disable (1350, X13SEM-TF only)	Pins 1-2 (Enabled)
JPME1	ME Recovery Mode	Pins 1-2 (Normal)
JPTG1	LAN1 and LAN2 Enable/Disable (X550, X13SEM-TF only)	Pins 1-2 (Enabled)
JWD1	Watch Dog Timer	Pins 1-2 (Reset)

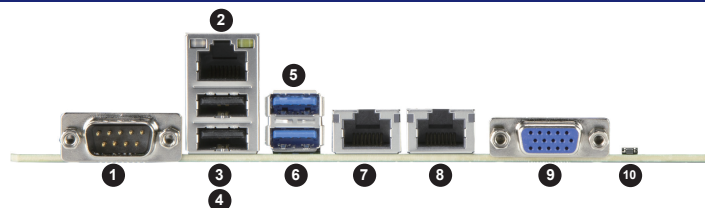
LED	Description	Status
LE1	Power LED	Solid Green: Power On
LED1	BMC Heartbeat LED	Blinking Green: BMC Normal
LED2	UID LED	Solid Blue: Unit Identified

Connector	Description
BT1	Onboard Battery
CN1	SlimSAS connector that supports eight SATA3 devices or two PCIe 3.0 x4 devices
CN2, CN3, CN5, CN6	PCIe 5.0 x8 MCIO Connectors
COM1	COM Port
FAN1-FAN4, FANA	CPU/System Fan Headers (FAN1: CPU Fan)
IPMI LAN	Dedicated IPMI LAN Port
I-SATA1, I-SATA2	Intel PCH SATA 3.0 Ports
I-SGPIO1	Serial Link General Purpose I/O Header
J7, J11	M.2 PCIe 4.0 x2 (in 22110, 2280)
JD1	Internal Speaker Header
JF1	Front Control Panel Header
JIPMB1	System Management Bus Header (for IPMI only)
JL1	Chassis Intrusion Header
JNCSI1	NC-SI Port Selection
JOH1-OH	Overheat LED Header
JPI	Power I ² C System Management Bus (Power SMB) Header
JPWR1	24-pin ATX Power Connector (Required)
JPWR2, JPWR3	12V 8-pin CPU Power Connectors (To provide alternative power for special enclosure when the 24-pin ATX power is not in use.)
JRK1	Intel RAID Key Header
JSD1, JSD2	SATA DOM Power Connectors
JSTBY1	Standby Power Connector
JTPM1	Trusted Platform Module/Port 80 Connector
JUIDB1	Unit Identifier Switch
LAN1, LAN2	1GbE (X13SEM-TF) or 10GbE (X13SEM-TF) LAN Ports
USB0/1	Back Panel USB 2.0 Ports
USB2/3, USB4/5	Front Accessible USB 2.0 Headers
USB6/7	Back Panel USB 3.2 Gen 1 Ports
USB8	Front Accessible USB 3.2 Gen 1 Type-A Header
USB9/10	Front Accessible USB 3.2 Gen 1 Headers
VGA	VGA Port

System Overview

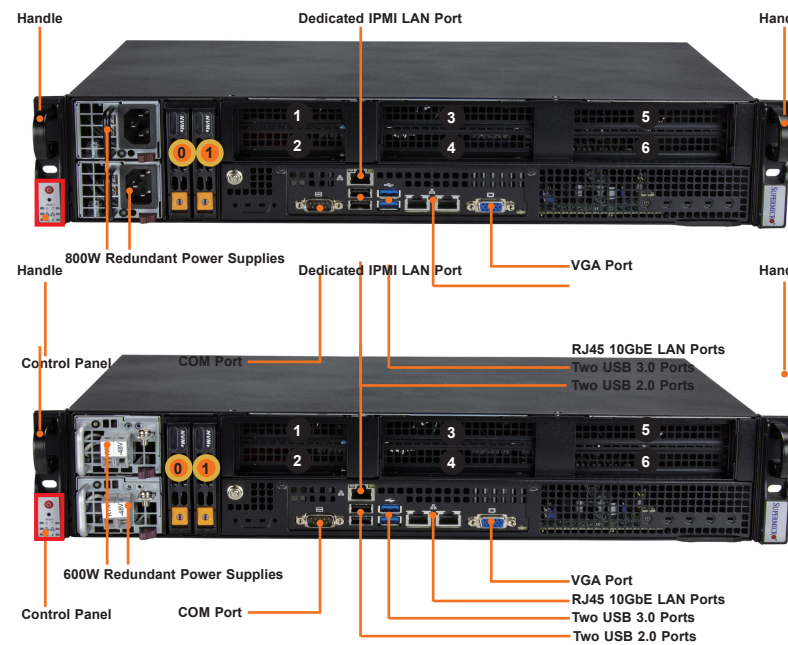
Motherboards	X13SEM-TF
Chassis	CSE-211M-R000NDP
Processor Support	Single 4th Generation Intel® Xeon® Scalable processor up to 270W TDP
Memory	Eight DIMM slots (1DCP), up to 2TB DDR5 4800MT/s ECC RDIMM/RDIMM-3DS
Expansion Slots	Two 2.5" NVMe drive bays Two M.2 slot M-key 22110/2280
I/O Ports	Two 10G BASE-T ports Two USB 3.0 ports Two USB 2.0 ports One VGA port One dedicated IPMI port One COM port
Expansion Slots	Default: Slot 1: PCIe 5.0 x16 (HHHL) Slot 2: PCIe 5.0 x8 (HHHL) Slot 3 & Slot 4: Disabled Slot 5 & 6: PCIe 5.0 x16 (FHHL) *Option 1: Slot 1: PCIe 5.0 x16 (HHHL) Slot 2: Disabled Slot 3: PCIe 5.0 x16 (FHHL) Slot 4: PCIe 5.0 x8 (FHHL) Slot 5 & 6: PCIe 5.0 x16 (FHHL) * Option 2: Slot 1: PCIe 5.0 x8 (HHHL) Slot 2: PCIe 5.0 x8 (HHHL) Slot 3: PCIe 5.0 x16 (FHHL) Slot 4: PCIe 5.0 x8 (FHHL) Slot 5 & 6: PCIe 5.0 x16 (FHHL) Note: For Expansion slots Option 1 and Option 2, the system can only support up to 225W CPU and will require the installation of additional components.
Power	SYS-211E-FRN2T: 800W AC ,SYS-211E-FRDN2T: 600W DC
Form Factor	3.5" SBC; 7.68" x 1.73" x 5.94" (195 x 44 x 150mm) (WxHxD)

I/O Connectors



No.	Description	No.	Description	No.	Description	No.	Description
1	COM1	4	USB1	7	LAN1	10	UID Switch
2	IPMI_LAN	5	USB6	8	LAN2		
3	USB0	6	USB7	9	VGA		

Front View & Interface

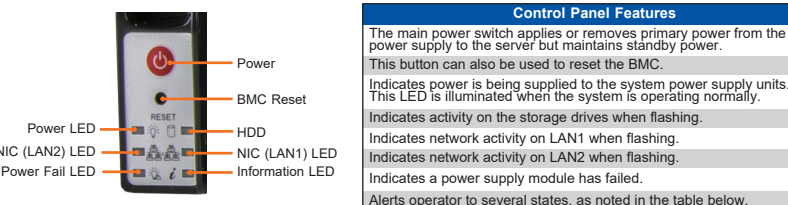


Logical Storage Drive Numbers

Item	Description
0 1	Two 2.5" NVMe storage drive bays (logical drive numbers shown)

Front Chassis Features

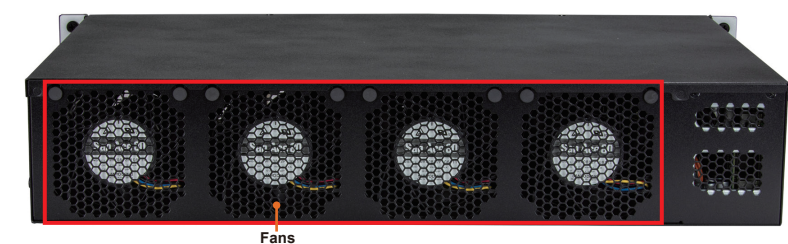
Item	Features	Description
1	SERVER HANDLES	Two handles supporting server removal
2	Control Panel	Front control panel with LEDs and buttons (see the following page)
3	Power Supplies	FRN2T: 800W AC / FRDN2T: 600W DC redundant power supplies
4	COM Port	One serial communication port
5	LAN Ports	One dedicated BMC LAN port, two RJ45 10GbE LAN ports
6	USB Ports	Two USB 2.0 ports and two USB 3.0 ports
7	VGA Port	One video port



Control Panel Features

The main power switch applies or removes primary power from the power supply to the server but maintains standby power. This button can also be used to reset the BMC. Indicates power is being supplied to the system power supply units. This LED is illuminated when the system is operating normally. Indicates activity on the storage drives when flashing. Indicates network activity on LAN1 when flashing. Indicates network activity on LAN2 when flashing. Indicates a power supply module has failed. Alerts operator to several states, as noted in the table below.

Rear Features



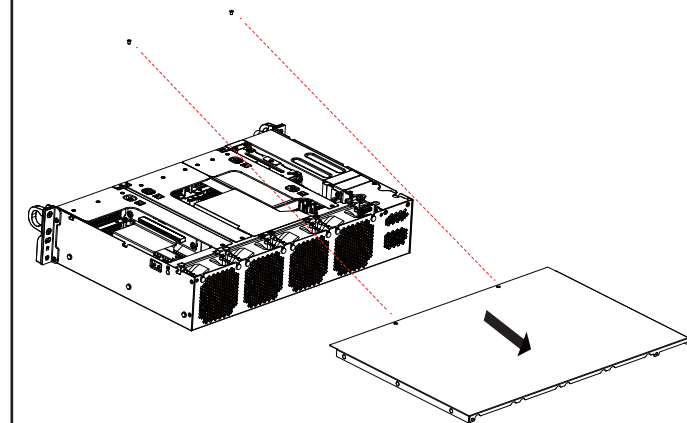
System Features: Rear

Item	Features	Description
1	Fans	Four internal fans

Accessing the System

Removing the Chassis Cover Removing the Bottom Cover

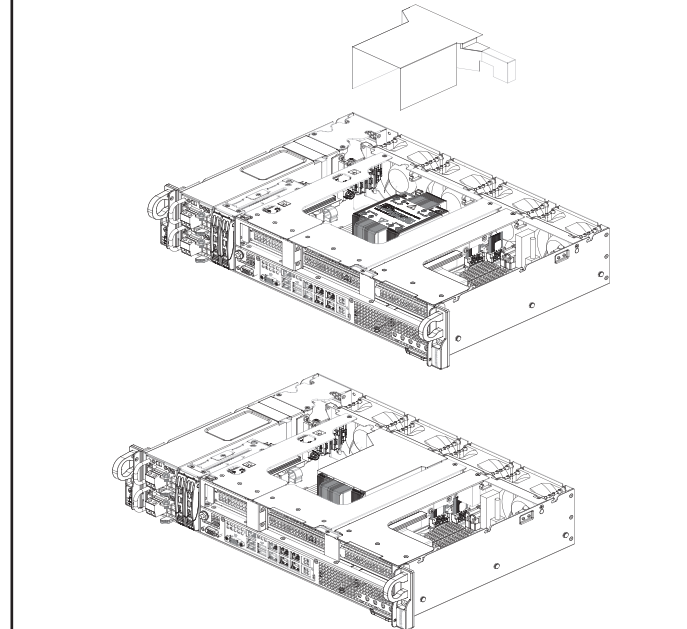
1. Remove power from the system as described in Section 2.1.
2. Remove the eight screws that hold the cover in place.
3. Lift the cover up and off the chassis.



Installing the Air Shroud

Installing the Mounting Brackets

Before installing/removing the air shroud, please remove all riser card brackets first. Place the air shroud as shown below.



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>

