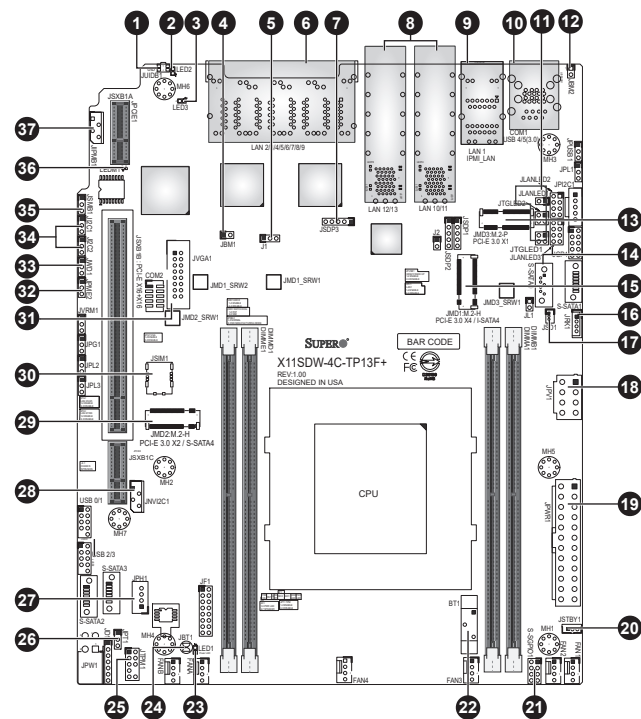


SUPERMICR SuperServer 1019D-4C/14CN/16C-RA/DN13TP+ Quick Reference Guide

Board Layout



No.	Jumper & Description
1	UID: Unit Identifier Switch
2	LED2: UID LED
3	LED3: Overheat/Power Fail/Fan Fail LED
4	JBM1: Disable IPMI Shared LAN
5	J1: M.2 SMBus Enable/Disable
6	LAN6 - LAN13: 1G LAN Ports (from I350)
7	JSDP3: Software-Defined Pins (For I350 LAN2)
8	LAN2&LAN3/LAN4&LAN5: 10G SFP+/10G LAN
9	LAN2/IPMI LAN: 1G LAN Port (from I210) / Dedicated IPMI LAN Port
10	COM1/USB3.1
11	JLANLED: LAN Activity LED Header
12	JBM2: Disable Dedicated IPMI Shared LAN
13	JMD3: M.2 Slot E-Key 2230 (USB2.0 / PCI-E x1)
14	S-SATA0: SATA3.0
15	JMD1: M.2 Slot M-Key 2280/22110 (SATA3.0 / PCI-E x4)
16	JRK1: RAID Key
17	JSD1: SATA DOM Power
18	JPV1: 12V 8-pin DC Power
19	JPWR1: 24-pin ATX Power
20	JSTBY1: Standby Power
21	S-SGPI01: Serial Link General Purpose I/O
22	BT1: Onboard Battery
23	LED1: Power LED
24	JBT1: CMOS Clear
25	JTPM1: Trusted Platform Module (TPM)/Port 80
26	JPT1: TPM Enable/Disable
27	JPH1: 4-pin HDD Power
28	JNV12C1: Non-volatile Memory (NVMe) I²C
29	JMD2: M.2 Slot B-Key 2242/3042 (USB2.0/USB3.0/SATA3.0/PCI-E x2)
30	JSIM1: Nano SIM Card Slot
31	JVGA1: VGA
32	JPME2: Manufacturing Mode Select
33	JWD1: Watch Dog Timer
34	JPC1/JPC2: SMB to PCI-E Slots Enable/Disable
35	J SMB1: System Management Bus Header
36	LEDM1: BMC
37	JIPMB1: System Management Bus Header (for IPMI only)

System Features

SuperServer Model Variation Table				
SuperServer	Motherboard	Processor	PWS model	Wattage
1019D-4C-RAN13TP+	X11SDW-4C-TP13F+	Intel® Xeon® D-2123IT	PWS-804P-1R	800W
1019D-4C-RDN13TP+	X11SDW-4C-TP13F+	Intel® Xeon® D-2123IT	PWS-601D-1R	600W
1019D-14CN-RAN13TP+	X11SDW-14CN-TP13F+	Intel® Xeon® D-2177NT	PWS-804P-1R	800W
1019D-14CN-RDN13TP+	X11SDW-14CN-TP13F+	Intel® Xeon® D-2177NT	PWS-601D-1R	600W
1019D-16C-RAN13TP+	X11SDW-16C-TP13F+	Intel® Xeon® D-2183IT	PWS-804P-1R	800W
1019D-16C-RDN13TP+	X11SDW-16C-TP13F+	Intel® Xeon® D-2183IT	PWS-601D-1R	600W

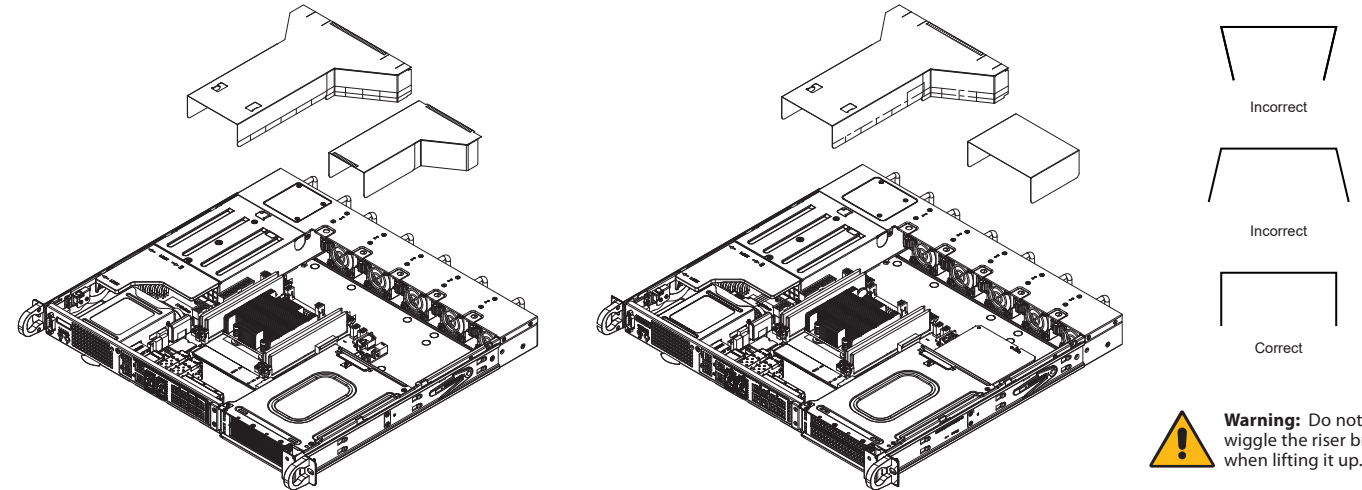
System Features	
Processors	Intel® Xeon® D-2123IT, Intel® Xeon® D-2177NT, and Intel® Xeon® D-2183IT
Motherboards	X11SDW-4C-TP13F+, X11SDW-14CN-TP13F+, and X11SDW-16C-TP13F+
Chassis	For 1019D-4C/14CN/16C-RDN13TP+ systems: CSE-515M-R601 For 1019D-4C/14CN/16C-RAN13TP+ systems: CSE-515M-R804
Memory	Supports 256GB of ECC RDIMM and 512GB LRDIMM DDR4 up to 2666MHz in four DIMM slots
Chipset	System on Chip
Expansion Slots	Two PCI-E 3.0 x16 slots One M.2 M-Key 2280/22110 for NVMe/SATA One M.2 B-Key 2242/3042 for SSD and WAN card One M.2 E-Key 2230 for WiFi
Input/Output	Four internal SATA3 (6Gbps) ports supporting RAID 0, 1, 5, 10 One front COM port One front VGA port
Network	Nine RJ45 1GbE LAN ports, four 10G SFP+ LAN ports, and one RJ45 dedicated IPMI LAN port
Storage Drives	Two internal SATA3 2.5" drive bays
Power	For 1019D-4C/14CN/16C-RDN13TP+ systems: Two 600W DC redundant power supplies For 1019D-4C/14CN/16C-RAN13TP+ systems: Two 800W AC redundant power supplies
Cooling	Five 40 x 56 mm redundant (N+1) and hot-swappable fans
Dimensions	(WxHxD) 17.2 x 1.7 x 15.7 in (437 x 43 x 398.78 mm)

Accessing the System and installing the add-on Card

Installing the Air Shroud

The 1019D-4C/14CN/16C-RA/DN13TP+ supports two types of PCI-E expansion card air shrouds, one for full-height cards and one for half-height cards (Optional)

1. Position the air shrouds in the chassis, as illustrated below. The air shroud fits just behind the fans.
2. Slide the air shroud into the grooves just behind the fan rack. If necessary, move any cables that interfere with the air shroud placement.
3. Remove perforated tabs, if necessary, for a good fit.



Warning: Do not tilt or wiggle the riser bracket when lifting it up.

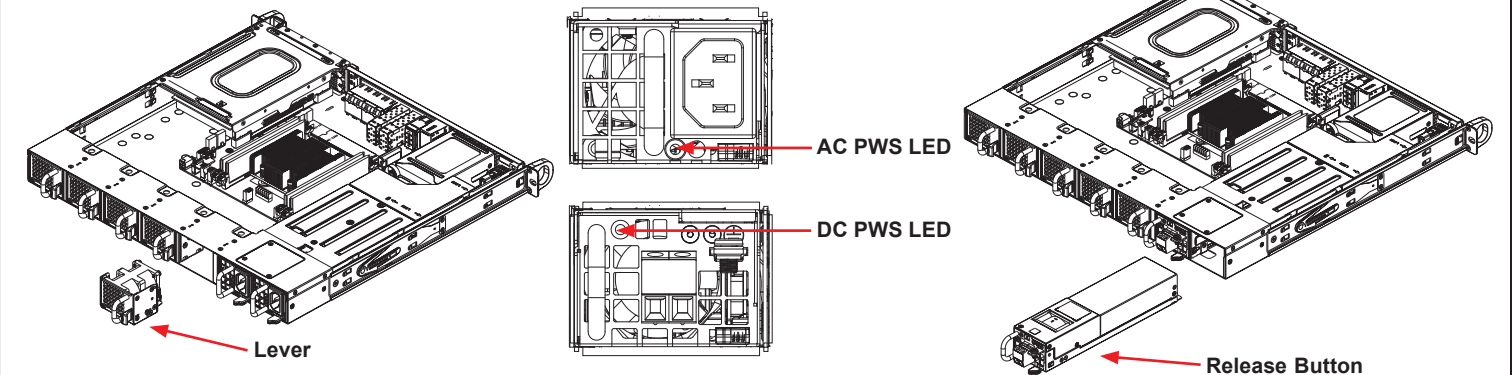
Replacing the Fans and Power Supply

System Fans

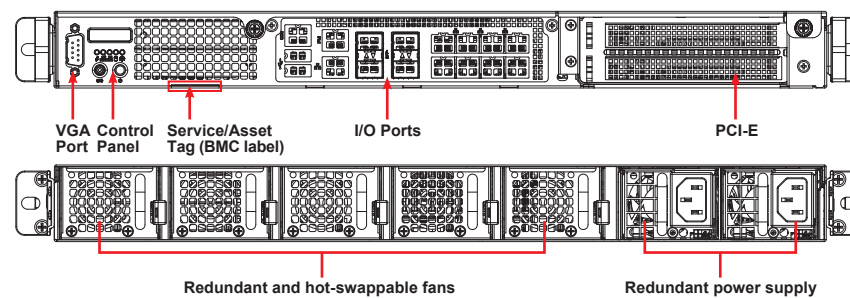
The fans can adjust their speed according to the heat level sensed in the system, which results in more efficient and quieter fan operation. Fan speed is controlled by IPMI. Each fan has its own separate tachometer. If a fan fails, the remaining fans will ramp up to full speed, the overheat/fan fail LED on the control panel will blink on and off, and an alarm will sound. Replace any failed fan at your earliest convenience with the same type and model.

Power Supply

The power supplies are auto-switching capable. The 800W AC power supplies can operate at a 100V to 240V input range. The 600W DC power supplies can operate at -48V DC input range. If replacing a power supply, the system does not need to be powered down.



Front View and Rear Features



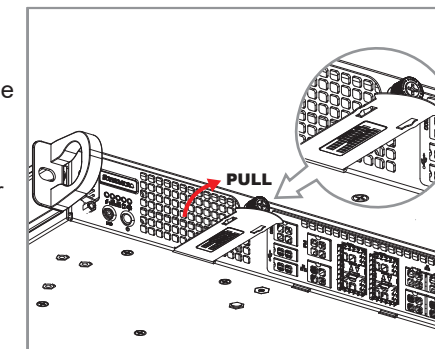
Front View Control Panel

Control Panel Features		
Item	Features	Description
1	Informational LED	Indicates one of multiple conditions
2	NIC2 LED	Indicates network activity on LAN port 2 when flashing.
3	NIC1 LED	Indicates network activity on LAN port 1 when flashing.
4	HDD LED	Indicates hard drive activity when flashing.
5	Power LED	Indicates power is being supplied to the system power supply.
6	UID Button	The UID is used to switch/turn on/turn off UID LED next to the PCI-E slots.
7	Power	The main power button is used to apply or remove power from the power supply to the server.

BMC Password Label

Pull-out tag with BMC unique password underneath.

Each system comes with a unique default password for the ADMIN user. This can be found on a sticker on the motherboard and a sticker underneath the service tag on chassis. If necessary, the password can be reset by the Supermicro IPMICFG tool.



For more information, please visit <https://www.supermicro.com/en/solutions/management-software/bmc-resources>

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>

