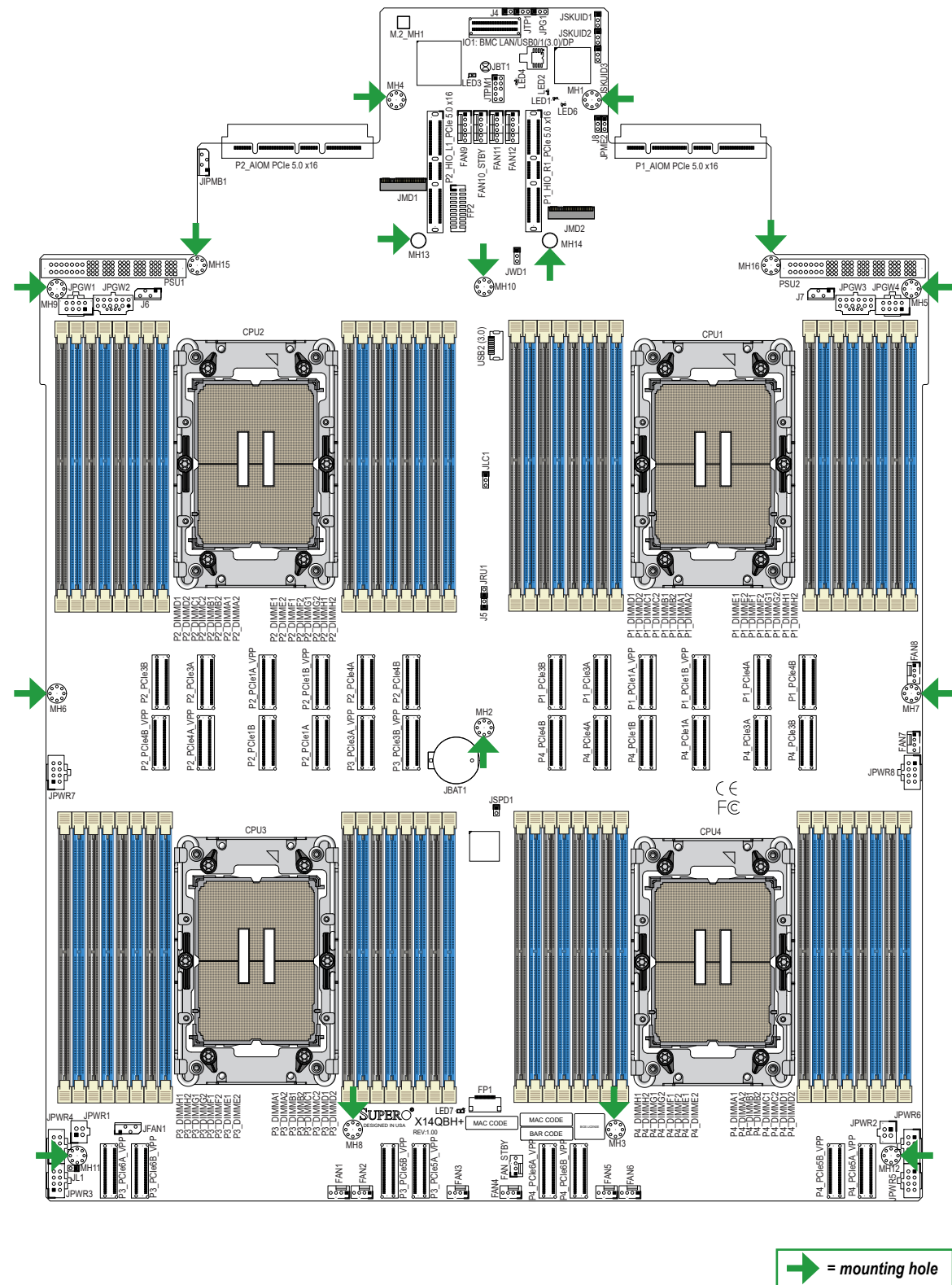


## Motherboard Layout and Features



## Jumpers and Connectors

Jumpers		
Jumper	Description	Default Setting
JBT1	CMOS Clear	Open (Normal)
JPG1	VGA Enable/Disable	Pins 1-2 (Enabled)
JPME2	ME Manufacturing Mode	Pins 1-2 (Normal)
JPT1	Onboard TPM Enable/Disable	Pins 1-2 (Enabled)
JRU1	UID LED/System Reset Jumper	Pins 1-2 (UID LED)
JWD1	Watchdog Timer	Pins 1-2 (Reset)

Connectors	
Connector	Description
FAN1-FAN12	FAN1-FAN9, FAN11-FAN12: Fan Headers
FAN_STBY	FAN_STBY: 4-pin STBY Fan Header
FAN10_STBY	FAN10_STBY: 6-pin STBY Fan Header
FP1	Front Control Panel Header
FP2	VGA and USB3/4 (2.0)
IO1	BMC LAN/USB0/1 (3.0)/DP
J5	NMI Switch
J6	Sideband Signal Connector for PDB1
J7	Sideband Signal Connector for PDB2
J8	VRM Programming Write Protect
JL1	Chassis Intrusion Header
JBAT1	Extended CMOS Battery
JFAN1	FAN_PMB

JGPW1-JGPW4	JGPW1: +12 V PWR7, JGPW2: GPU_PWR1 JGPW3: GPU_PWRS2, JGPW4: +12 V_PWR8
JIPMB1	4-pin BMC External I <sup>2</sup> C Header
JLC1	Liquid Cooling Leakage Detect
JMD1	M.2-C1 PCIe 4.0 x4 Slot
JMD2	M.2-C2 PCIe 4.0 x4 Slot
JPWR1-JPWR8	JPWR1-JPWR2: 4-pin Power Headers for backplane devices JPWR3 (+12 V_PWR1): 8-pin Backplane Power Connector 1 JPWR4 (+12 V_PWR2): 8-pin Backplane Power Connector 2 JPWR5 (+12 V_PWR3): 8-pin Backplane Power Connector 3 JPWR6 (+12 V_PWR4): 8-pin Backplane Power Connector 4 JPWR7 (+12 V_PWR5): 8-pin Backplane Power Connector 5 JPWR8 (+12 V_PWR6): 8-pin Backplane Power Connector 6
JTPM1	Trusted Platform Module/Port 80 Connector
M.2_MH1	M.2 Mounting Hole
MH1-MH16	Motherboard Mounting Holes
P1_AIOM PCIe 5.0 x16	Advanced I/O Module (AIOM) PCIe 5.0 Slot supported by CPU1
P2_AIOM PCIe 5.0 x16	Advanced I/O Module (AIOM) PCIe 5.0 Slot supported by CPU2
P1_HIO_R1_Pcie 5.0 x16	PCIe 5.0 x16 Hybrid Slot for right riser card supported by CPU1
P2_HIO_R1_Pcie 5.0 x16	PCIe 5.0 x16 Hybrid Slot for left riser card supported by CPU2
P1_Pcie1A_VPP/P1_Pcie1B_VPP	PCIe 5.0 x8 Slots by CPU1
P1_Pcie3A/P1_Pcie3B	
P1_Pcie4A/P1_Pcie4B	
P2_Pcie1A_VPP/P2_Pcie1B_VPP	PCIe 5.0 x8 Slots by CPU2
P2_Pcie3A/P2_Pcie3B	
P2_Pcie4A/P2_Pcie4B	

## Connectors and LED Indicators

Connectors	
Connector	Description
P3_Pcie1A/P3_Pcie1B	PCIe 5.0 x8 Slots by CPU3
P3_Pcie3A_VPP/P3_Pcie3B_VPP	
P3_Pcie4A_VPP/P3_Pcie4B_VPP	
P3_Pcie6A_VPP/P3_Pcie6B_VPP	
P4_Pcie1A/P4_Pcie1B	PCIe 5.0 x8 Slots by CPU4
P4_Pcie3A/P4_Pcie3B	
P4_Pcie4A/P4_Pcie4B	
P4_Pcie5A_VPP/P4_Pcie5B_VPP	
P4_Pcie6A_VPP/P4_Pcie6B_VPP	
PSU1, PSU2	Power Supply Unit 1, Power Supply Unit 2
USB2	USB 3.0 Header

LED Indicators		
LED	Description	Status
LED1	CPU2 Power Good Status LED	Red: Power is not ready
		Dimmed: Power is ready
LED2	CPU3 Power Good Status LED	Red: Power is not ready
		Dimmed: Power is ready
LED3	BMC Heartbeat LED	Blinking Green: BMC Normal
LED4	BMC Heartbeat Failure LED	Solid Red: BMC Failure
LED6	CPU4 Power Good Status LED	Red: Power is not ready
		Dimmed: Power is ready
LED7	Motherboard Power On LED	Solid Green: Power On

## Processor and Memory Support

The X14QBH+ motherboard supports the Intel® Xeon 6700P-Series scalable processors with a Thermal Design Power (TDP) of 165 W to 350 W in an LGA 4710 E2 socket.

The X14QBH+ motherboard supports up to 16 TB of ECC DDR5 3DS RDIMM with speeds of up to 6400 MT/s in 64 DIMM slots.

## Processor and PHM Installation

- Assemble the processor carrier assembly by aligning and placing one end of the processor into the latch marked A, and place the other end of processor into the latch marked B.
- After assembling the PHM, mount it onto the CPU socket. With a T30 bit torque driver set to a force of 8.0 in-lbf (0.904 N-m), gradually tighten the four screws.

To form the processor heatsink module (PHM), mount the processor carrier assembly onto the heatsink and snap into place.

The CPU carriers XCC (SKT-1543H-0000-FXC) and HCC/LCC (SKT-1544H-0000-FXC) are included in the shipping package.