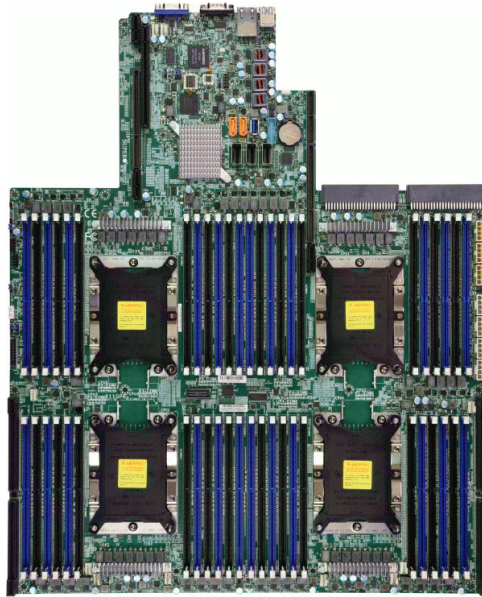


X11QPH+ (For SuperServer Only)



MP Solutions

Key Features

1. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, Quad Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s
2. Intel® C621
3. Up to 12TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 12TB 3DS ECC LRDIMM, DDR4-2933MHz
Or 12TB 3DS ECC DCPMM, DDR4-2666MHz, in 48 DIMM slots
4. 1 PCI-E 3.0 x32 Left Riser, 1 PCI-E 3.0 x40 Ultra Riser, 1 PCI-E 3.0 x8 in x16 slot rear
Middle Riser, 1 PCI-E 3.0 x32 for 2U (or x48+x8 for 4U) on front for NVMe card support, 1 PCI-E 3.0 (x32 for 2U or x48 for 4U) on front for NVMe card support.
5. Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
6. 1 VGA port
7. Networking options provided via Ultra Riser

Specifications

Product SKUs

MBD-X11QPH+ ■ X11QPH+

Physical Stats

Form Factor ■ Proprietary

Dimension ■ 16.8" x 20.5" (42.67cm x 52.07cm)

Processor

CPU ■ 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors
 ■ Quad Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP, 3 UPI up to 10.4 GT/s

Core ■ Up to 28 cores

Note ■ BIOS version 3.0 or above is required to support 2nd Gen Intel® Xeon® Scalable processors

System Memory

Memory Capacity ■ 48 DIMM slots
 ■ Up to 12TB 3DS Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz
 ■ Up to 12TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 12TB 3DS ECC RDIMM, DDR4-2933MHz

Memory Type ■ 2933/2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

DIMM Sizes ■ LRDIMM: 8GB, 16GB, 32GB, 64GB, 128GB
 ■ RDIMM: 8GB, 16GB, 32GB, 64GB, 128GB

Memory Voltage ■ 1.2V

Error Detection ■ Corrects single-bit errors
 ■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset ■ Intel® C621

IPMI ■ ASPEED AST2500

Graphics ■ ASPEED AST2500 BMC

Network Controllers ■ Networking options provided via Ultra Riser

SATA ■ Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Input / Output

Expansion Slots

PCI-E ■ 1 PCI-E 3.0 x32 Left Riser. 1 PCI-E 3.0 x40 Ultra Riser. 1 PCI-E 3.0 x8 in x16 slot rear Middle Riser. 1 PCI-E 3.0 x32 for 2U (or x48+x8 for 4U) on front for NVMe card support. 1 PCI-E 3.0 (x32 for 2U or x48 for 4U) on front for NVMe card support.

System BIOS

BIOS Type ■ AMI UEFI

Management

Software ■ SuperDoctor® 5, NMI, [SUM](#), KVM with dedicated LAN, [IPMI2.0](#), Watchdog

System Management Software ■ SMCIPMITool

PC Health Monitoring

Voltage ■ VBAT, Supports system management utility, Monitors CPU voltages, Chassis intrusion header, 4 -fan status, +5V standby, +5V, +3.3V, +12V, +1.8V, 5 Phase-switching voltage regulator

LED ■ CPU / System Overheat LED

FAN ■ 4x 4-pin fan headers (up to 4 fans)
 ■ PWM fan speed control
 ■ Low noise fan speed control
 ■ Status monitoring for speed control
 ■ Status monitoring for on/off control

Other Features ■ SDDC
 ■ RoHS, Halogen Free
 ■ 4x 8-pin GPU power connectors

SATA	<ul style="list-style-type: none">■ 2 SATA3 (6Gbps) port(s)■ 12 SATA3 (6Gbps) port(s)
USB	<ul style="list-style-type: none">■ 1 USB 3.2 Gen1 port(s) (1 type A)■ 2 USB 2.0 port(s) (2 via header)■ 2 USB 3.0 port(s) (2 rear)
Video Output	<ul style="list-style-type: none">■ 1 VGA port(s)
Serial Port	<ul style="list-style-type: none">■ 1 COM Port(s) (1 rear)
DOM	<ul style="list-style-type: none">■ 2 SuperDOM (Disk on Module) power connector
TPM	<ul style="list-style-type: none">■ 1 TPM Header

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11QPH+	1	X11QPH+ Motherboard

Server (Optimized for X11QPH+)

Server Name
<u>SYS-2049U-TR4</u>
<u>SYS-8049U-E1CR4T</u>

