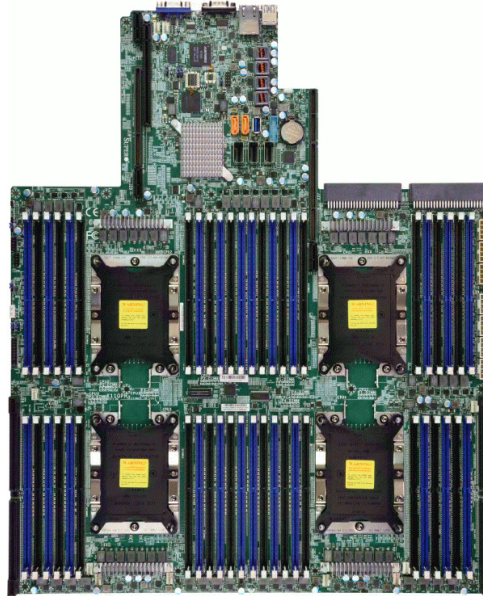# X11QPH+ (For SuperServer Only)

MP Solutions

Key Features

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

Intel® C621

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

1 PCIe 3.0 x32 Left Riser._x000D_ _x000D_ 1 PCIe 3.0 x40 Ultra Riser._x000D_ _x000D_ 1 PCIe 3.0 x8 in x16 slot rear

Middle Riser. _x000D_ _x000D_ 1 PCIe 3.0 x32 for 2U (or x48+x8 for 4U) on front for NVMe card support. _x000D_

_x000D_ 1 PCIe 3.0 (x32 for 2U or x48 for 4U) on front for NVMe card support.

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

1 VGA port

Networking options provided via Ultra Riser

Optimized Servers

SYS-2049U-TR4

SYS-8049U-E1CR4T

Specifications

Product SKUs
MBD-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
2933/2666/2400/2133 MT/s 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
1 ASPEED AST2500 BMC port(s)
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
SATA
2 SATA3 (6Gbps) port(s)
12 SATA3 (6Gbps) port(s)
USB
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
1 VGA port(s)
Serial Port
1 COM Port(s) (1 rear)
DOM
2 SuperDOM (Disk on Module) power connector

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

TPM

1 TPM Header

Parts List