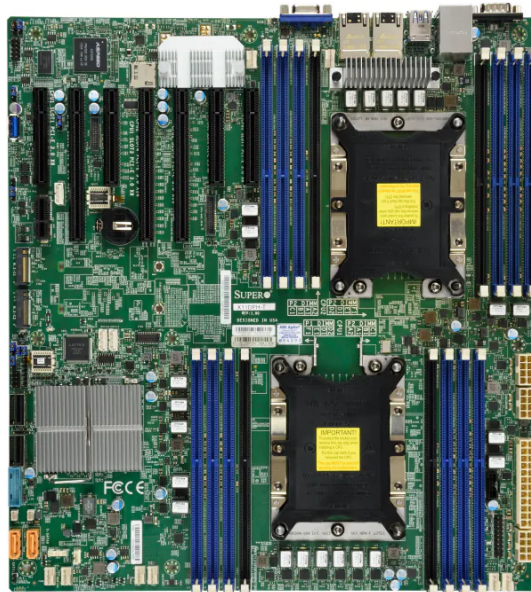# X11DPH-T

7 PCI-E 3.0 Slots

Key Features

1. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors,
   Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s

2. Intel® C622

3. Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz
   Or 2TB DCPMM, DDR4-2666MHz, in 16 DIMM slots;

   Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only);

4. 3 PCI-E 3.0 x16,
   4 PCI-E 3.0 x8
   M.2 Interface: 2 PCI-E 3.0 x4
   M.2 Form Factor: 2242/2260/2280/22110
   M.2 Key: M-Key (RAID 0,1 support)

5. Dual LAN with 10GBase-T with Intel® X722 + X557

6. Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10

7. 1 VGA port

Specifications

Product SKUs

MBD-X11DPH-T	X11DPH-T

Physical Stats

Form Factor	E-ATX
Dimension	12" x 13" (30.48cm x 33.02cm)

Processor

CPU	• 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors • Dual Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP, 3 UPI up to 10.4 GT/s
Note	• BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP • BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

System Memory

Memory Capacity	• 16 DIMM slots • Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz • Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz • Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only)
Memory Type	• 2933/2666/2400/2133MHz ECC DDR4 LRDIMM (3DS), RDIMM (3DS)
DIMM Sizes	• LRDIMM: 64GB • RDIMM: 64GB
Memory Voltage	• 1.2V
Error Detection	• Corrects single-bit errors • Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	Intel® C622
SATA	Intel® C622 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	ASPEED AST2500

Expansion Slots

PCI-E	• 3 PCI-E 3.0 x16, • 4 PCI-E 3.0 x8
M.2	• M.2 Interface: 2 PCI-E 3.0 x4, RAID 0,1 • Form Factor: 2242/2260/2280/22110 • Key: M-Key

System BIOS

BIOS Type	AMI UEFI

Management

Software	SuperDoctor® 5, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, IPMI2.0, Watchdog

PC Health Monitoring

Voltage	• Monitors CPU voltages, Chipset Voltage, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages
LED	• UID/Remote UID • Power LED • BMC/IPMI Heartbeat LED
Temperature	• Monitoring for CPU and chassis environment • CPU thermal trip support • Thermal Control for 8 Fan Connectors
FAN	• 8x 4-pin fan headers (up to 8 fans) • PWM fan speed control • 8x fans with tachometer monitoring
Other Features	• WOL, UID, RoHS, CPU thermal trip support for processor protection, Chassis intrusion header, Chassis intrusion detection, ATX Power connector, ACPI power management, 8-pin 12v DC power connector, SDDC, NCSI header

Operating Environment

Operating Temperature Range	• 10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	• -40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	• 8% - 90% (non-condensing)

Network Controllers	▪ Dual LAN with 10GBase-T with Intel® X722 + X557

Non Operating Relative Humidity Range	▪ 5% - 95% (non-condensing)

Input / Output

SATA	▪ 10 SATA3 (6Gbps) port(s)
LAN	▪ 2 RJ45 10GBase-T ports
USB	▪ 7 USB 3.2 Gen1 port(s) (2 via header; 4 rear; 1 type A)
Video Output	▪ 1 VGA port(s)
Serial Port	▪ 1 COM Port(s) (1 rear)
DOM	▪ 2 SATA DOM (Disk on Module) power connector support
TPM	▪ 1 TPM Header

Parts List

Parts List (Bulk Package)

Name	Part Number	Qty	Description
Motherboard	MBD-X11DPH-T	1	X11DPH-T Motherboard
I/O Cables	CBL-0044L • *e*Store	2	57.5 cm SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • *e*Store	1	STD I/O SHIELD

Parts List (Retail Package)

Name	Part Number	Qty	Description
Motherboard	MBD-X11DPH-T	1	X11DPH-T Motherboard
I/O Cables	CBL-0044L • *e*Store	2	57.5 cm SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • *e*Store	1	STD I/O SHIELD

Optional Parts List

Name	Part Number	Qty	Description
TPM security module (optional, not included)	AOM-TPM-9671H AOM-TPM-9671V AOM-TPM-9670V AOM-TPM-9670H	1 1 1 1	SPI capable TPM 1.2 with Infineon 9670 controller with horizontal form factor SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor

Chassis (Optimized for X11DPH-T)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
		🔴 SC216BE1C4-R1K23LPB 🔴 SC829HE1C4-R1K62LPB SCLA26E1C4-R609LP 🔴 SC826BE1C4-R1K23LPB	🔴 SC836BE1C-R1K23B SC835TQC-R1K03B		🔴 SC846BE1C-R1K23B 🔴 SC847BE1C4-R1K23LPB

🔴 = *Most optimized Chassis for SuperServer Configuration*
Blue color = Compatible
Green color = Global SKU & Compatible
Red dot & green color = Optimized + Global SKU

Server (Optimized for X11DPH-T)

Server Name
SSG-2029P-ACR24H
SSG-2029P-ACR24L
SSG-2029P-E1CR24H
SSG-2029P-E1CR24L
SSG-6029P-E1CR12H
SSG-6029P-E1CR12L
SSG-6029P-E1CR12T
SSG-6029P-E1CR16T
SSG-6039P-E1CR16H
SSG-6039P-E1CR16L
SSG-6049P-E1CR24H
SSG-6049P-E1CR24L
SSG-6049P-E1CR36H

SSG-6049P-E1CR36L

SSG-6049P-E1CR36L