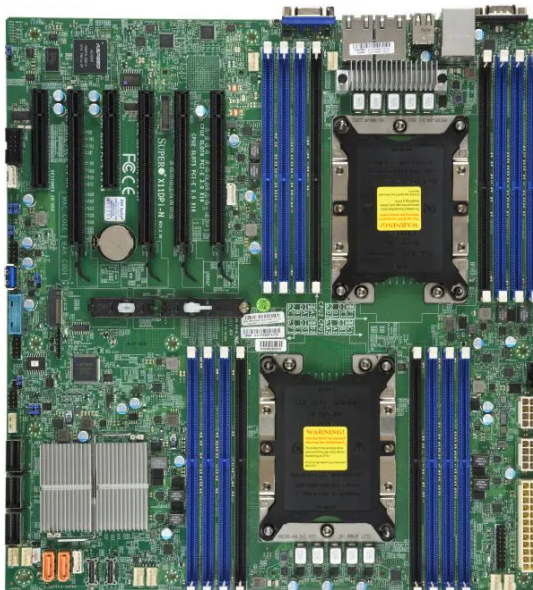


X11DPI-N



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, 2 UPI up to 10.4 GT/s
2. Intel® C621
3. Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz
Or 2TB Intel® PMem, DDR4-2666MHz, in 16 DIMM slots;
Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only);
4. 4 PCI-E 3.0 x16,
2 PCI-E 3.0 x8,
2 PCI-E 3.0 NVMe x4 Internal Port(s)
M.2 Interface: PCI-E 3.0 x4
M.2 Form Factor: 2260, 2280, 22110
M.2 Key: M-Key
5. Intel® C621 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
6. Dual LAN with 1GbE LAN with Intel® X722
7. 1 VGA port

Specifications

Product SKUs

MBD-X11DPI-N ■ X11DPI-N

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, Dual UPI up to 10.4 GT/s

Core ■ Up to 28 cores

Note ■ BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP

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: 128GB
■ RDIMM: 64GB

Memory Voltage ■ 1.2V

Error Detection

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

On-Board Devices

Chipset ■ Intel® C621

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

IPMI ■ ASPEED AST2500

Graphics ■ ASPEED AST2500 BMC

Network Controllers ■ Dual LAN with 1GbE LAN with Intel® X722

Input / Output

Expansion Slots

PCI-E ■ 4 PCI-E 3.0 x16,
■ 2 PCI-E 3.0 x8

M.2

- M.2 Interface: PCI-E 3.0 x4
- Form Factor: 22110, 2280, 2260
- 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, 3.3V standby, +5V standby, +5V, +3.3V, +12V

LED

- UID/Remote UID
- Power LED
- BMC/IPMI Heartbeat LED
- CPU / System Overheat LED

Temperature

- Monitoring for CPU and chassis environment
- CPU thermal trip support
- PECI

FAN

- 8x 4-pin fan headers (up to 8 fans)
- PWM fan speed control

Other Features

- UID, RoHS, Node Manager Support, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion header, Chassis intrusion detection, ATX Power connector, ACPI power management, 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)

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

SATA	■ 14 SATA3 (6Gbps) port(s)
LAN	■ 2 RJ45 Gigabit Ethernet LAN ports
USB	■ 4 USB 2.0 port(s) (2 rear; 2 via header) ■ 3 USB 3.2 Gen1 port(s) (2 via header; 1 type A) ■ 2 USB 3.0 port(s) (2 rear)
Video Output	■ 1 VGA port(s)
Serial Port	■ 2 COM Port(s) (1 header; 1 rear)
DOM	■ 2 SuperDOM (Disk on Module) ports
TPM	■ 1 TPM Header

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DPI-N	1	X11DPI-N Motherboard
I/O Cables	CBL-0044L • eStore	2	57.5 cm SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N • eStore	1	STD I/O SHIELD

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DPI-N	1	X11DPI-N Motherboard
I/O Cables	CBL-0044L • eStore CBL-0476L • eStore	2 1	57.5 cm SATA FLAT S-S PBF IPASS to 4 SATA cable
I/O Shield	MCP-260-00042-0N • eStore	1	STD I/O SHIELD
X11DPI-N	MBD-X11DPI-N	1	Motherboard

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module (optional, not included)	AOM-TPM-9671V-S	--	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
	AOM-TPM-9670V-S	--	

Chassis (Optimized for X11DPI-N)

Embedded Compact	1U	2U	3U	Mid/Mini-Tower	4U/Tower
		<ul style="list-style-type: none"> ● SC213AC-R1K23LPB SCLA25TQC-R609LP ● SC825TQC-R1K03LPB SC825TQC-R802LPB 	<ul style="list-style-type: none"> SC835TQC-R1K03B SC835TQC-R802B 		<ul style="list-style-type: none"> ● SC842TQC-865B SC745BAC-R1K28B2

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

Server (Optimized for X11DPI-N)

Server Name
SYS-2029P-C1R
SYS-6029P-TR
SYS-7049P-TR

