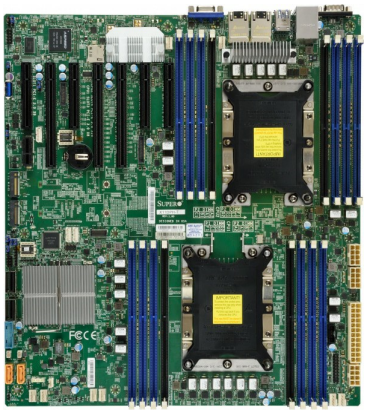
# X11DPH-I





7 PCI-E 3.0 Slots

## Key Features

1. Intel® Xeon® Scalable Processors., Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4 GT/s
2. Intel® C621
3. Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots
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. 1 VGA port
6. Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
7. Dual LAN with 1GbE with Marvell® 88E1512

## Links & Resources

- Tested Memory List
- Tested HDD / SSD List
- Tested M.2 List
- Tested AOC List
- Motherboard Manual
- Quick Reference Guide
- Update Your BIOS
- BMC/IPMI Firmware
- Download the Latest Drivers and Utilities
- Download Drivers CD
- OS Compatibility

## Specifications

### Product SKUs

| | |
|---|---|
| MBD-X11DPH-I | X11DPH-I |

### Physical Stats

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

### Processor/Cache

| | |
|---|---|
| CPU | Intel® Xeon® Scalable Processors.<br>Dual Socket P (LGA 3647) supported, CPU TDP support 205W, 3 UPI up to 10.4 GT/s |

### System Memory

| | |
|---|---|
| Memory Capacity | Up to 2TB 3DS ECC RDIMM, DDR4-2666MHz; Up to 2TB 3DS ECC LRDIMM, in 16 DIMM slots |
| Memory Type | 2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM |
| DIMM Sizes | RDIMM: 64GB<br>LRDIMM: 64GB<br>3DS LRDIMM: 128GB |
| Memory Voltage | 1.2V |
| Error Detection | Corrects single-bit errors<br>Detects double-bit errors (using ECC memory) |

### On-Board Devices

| | |
|---|---|
| Chipset | Intel® C621 |
| SATA | Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10 |
| IPMI | ASPEED AST2500 |
| Network Controllers | Dual LAN with 1GbE with Marvell® 88E1512 |

### Input / Output

| | |
|---|---|
| SATA | 10 SATA3 (6Gbps) ports |
| LAN | 2 1GbE LAN ports |
| USB | 7 USB 3.0 ports (4 rear + 2 headers + 1 Type A) |
| Video Output | 1 VGA port |
| Serial Port / Header | 1 COM Port (1 rear) |
| TPM | 1 TPM Header |

### Expansion Slots

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

### System BIOS

| | |
|---|---|
| BIOS Type | AMI UEFI |

### Management

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

### PC Health Monitoring

| | |
|---|---|
| Voltage | +1.8V, +12V, +3.3V, +5V, +5V standby, 8 - fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, System temperature, VBAT |
| FAN | 8fan headers (up to 8 fans), 8x fans with tachometer monitoring , Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control |
| Temperature | CPU thermal trip support, Monitoring for CPU and chassis environment, PECI |
| LED | CPU / System Overheat LED, UID/Remote UID, Suspend static indicator LED |
| Other Features | ACPI power management, Chassis intrusion detection, CPU thermal trip support for processor protection, Node Manager Support, RoHS, UID |

### 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) |

Downloaded from Arrow.com.

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

## Parts List

| Parts List (Bulk Package) | | | |
|---|---|---|---|
| **Name** | **Part Number** | **Qty** | **Description** |
| Motherboard | MBD-X11DPH-i | 1 | X11DPH-i Motherboard |
| I/O Shield | MCP-260-00042-0N | 1 | STD I/O SHIELD |
| I/O Cables | CBL-0044L | 2 | 57.5 cm SATA FLAT S-S PBF |

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

**Chassis** (Optimized for X11DPH-I)

| Embedded Compact | 1U | 2U | 3U | Mid/Mini-Tower | 4U/Tower |
|---|---|---|---|---|---|
| | | 826BE1C4-R1K23LPB<br>829HE1C4-R1K62LPB<br>216BE1C4-R1K23LPB<br>2U Heatsink:SNK-P0068PSC (Front)<br>2U Heatsink:SNK-P0068PS (Rear) | SC836BE1C-R1K23B<br>2U Heatsink:SNK-P0068PS | | SC846BE1C-R1K23B<br>2U Heatsink:SNK-P0068PS<br>SC847BE1C4-R1K23LPB<br>2U Heatsink:SNK-P0068PSC (Front)<br>2U Heatsink:SNK-P0068PS (Rear) |

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


Copyright © 2019 Super Micro Computer, Inc.
Information in this document is subject to change without notice.
Other products and companies referred to herein are trademarks or registered trademarks of their respective companies or mark holders.

Downloaded from Arrow.com.