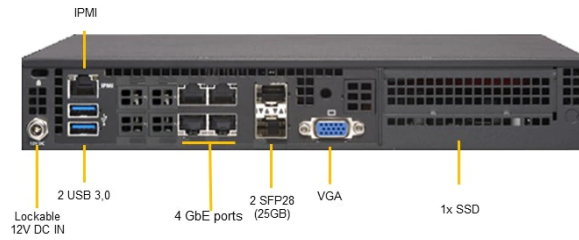


# IoT SuperServer SYS-E300-12D-10CN6P

## SuperServer SYS-E300-12D-10CN6P

(Front View – System)



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### Key Applications

- IoT Gateway
- Network Security Appliance
- SD WAN
- Embedded Networking Applications

### Key Features

1. 10-Core High Density ICX-D SoC processor for edge network computing
2. 1 Dedicated IPMI LAN  
6 Networking Interface (2 x25G SFP28, 4 x 1GbE)
3. 1x 2.5" SATA drives and 1x 2280 M.2

# Specifications

## Product SKUs

|                            |   |
|----------------------------|---|
| <b>SYS-E300-12D-10CN6P</b> | ▪ SuperServer SYS-E300-12D-10CN6P (Black) |
|----------------------------|---|

## Motherboard

### Super X12SDV-10C-SP6F

## Processor

|            |  |
|------------|--|
| <b>CPU</b> | <ul style="list-style-type: none"> <li>▪ Single SoC</li> <li>▪ Intel® Xeon® Processor D-1747NTE, 10 Cores/20 Threads CPU TDP 80W</li> <li>▪ Support CPU TDP 80W</li> </ul> |
|------------|--|

|              |                                   |
|--------------|-----------------------------------|
| <b>Cores</b> | ▪ Up to 10C/20T; Up to 15MB Cache |
|--------------|-----------------------------------|

## System Memory

|               |  |
|---------------|--|
| <b>Memory</b> | <ul style="list-style-type: none"> <li>▪ Memory Capacity: 4 DIMM slots</li> <li>▪ Up to 256GB: ECC RDIMM</li> <li>▪ Memory Type: 2933MHz ECC DDR4 RDIMM</li> </ul> |
|---------------|--|

|                       |         |
|-----------------------|---------|
| <b>Memory Voltage</b> | ▪ 1.2 V |
|-----------------------|---------|

|                        |       |
|------------------------|-------|
| <b>Error Detection</b> | ▪ ECC |
|------------------------|-------|

## On-Board Devices

|             |                       |
|-------------|-----------------------|
| <b>SATA</b> | ▪ M.2 M,B-Key (6Gbps) |
|-------------|-----------------------|

|                |              |
|----------------|--------------|
| <b>Chipset</b> | ▪ Intel® SoC |
|----------------|--------------|

|                             |   |
|-----------------------------|---|
| <b>Network Connectivity</b> | <ul style="list-style-type: none"> <li>▪ 4x 1GbE GbE</li> <li>▪ 2x 25GbE SFP28</li> </ul> |
|-----------------------------|---|

|             |  |
|-------------|--|
| <b>IPMI</b> | <ul style="list-style-type: none"> <li>▪ Support for Intelligent Platform Management Interface v.2.0</li> <li>▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> </ul> |
|-------------|--|

## Input / Output

|              |                 |
|--------------|-----------------|
| <b>Video</b> | ▪ 1 VGA port(s) |
|--------------|-----------------|

## System BIOS

|                  |                     |
|------------------|---------------------|
| <b>BIOS Type</b> | ▪ AMI 32MB AMI UEFI |
|------------------|---------------------|

|                      |  |
|----------------------|--|
| <b>BIOS Features</b> | <ul style="list-style-type: none"> <li>▪ ACPI 6.3</li> <li>▪ PCI FW 3.0</li> <li>▪ SMBIOS 3.3</li> <li>▪ UEFI 2.7</li> </ul> |
|----------------------|--|

## Management

|                 |  |
|-----------------|--|
| <b>Software</b> | <ul style="list-style-type: none"> <li>▪ SuperDoctor® 5</li> <li>▪ IPMI 2.0</li> </ul> |
|-----------------|--|

|                             |  |
|-----------------------------|--|
| <b>Power Configurations</b> | <ul style="list-style-type: none"> <li>▪ ACPI Power Management</li> <li>▪ Power-on mode for AC power recovery</li> </ul> |
|-----------------------------|--|

## Chassis

|                    |           |
|--------------------|-----------|
| <b>Form Factor</b> | ▪ Mini-1U |
|--------------------|-----------|

|              |                   |
|--------------|-------------------|
| <b>Model</b> | ▪ <b>CSE-E300</b> |
|--------------|-------------------|

## Dimensions and Weight

|               |               |
|---------------|---------------|
| <b>Height</b> | ▪ 1.7" (43mm) |
|---------------|---------------|

|              |               |
|--------------|---------------|
| <b>Width</b> | ▪ 10" (254mm) |
|--------------|---------------|

|              |                |
|--------------|----------------|
| <b>Depth</b> | ▪ 8.9" (226mm) |
|--------------|----------------|

|                |                                    |
|----------------|------------------------------------|
| <b>Package</b> | ▪ 10.87" (H) x 15" (W) x 5.59" (D) |
|----------------|------------------------------------|

|               |   |
|---------------|---|
| <b>Weight</b> | <ul style="list-style-type: none"> <li>▪ Net Weight: 2.76 lbs (1.25 kg)</li> <li>▪ Gross Weight: 3.7 lbs (1.68 kg)</li> </ul> |
|---------------|---|

|                        |         |
|------------------------|---------|
| <b>Available Color</b> | ▪ Black |
|------------------------|---------|

## Front Panel

|                |  |
|----------------|--|
| <b>Buttons</b> | <ul style="list-style-type: none"> <li>▪ Power On/Off</li> <li>▪ UID button</li> </ul> |
|----------------|--|

|             |  |
|-------------|--|
| <b>LEDs</b> | <ul style="list-style-type: none"> <li>▪ HDD activity</li> <li>▪ LAN1 activity</li> <li>▪ LAN2 activity</li> <li>▪ Power status</li> <li>▪ System information</li> </ul> |
|-------------|--|

## Expansion Slots

|                            |                                     |
|----------------------------|-------------------------------------|
| <b>PCI-Express (PCI-E)</b> | ▪ Slot 6: 1 PCIe PCI-E 4.0 x16 FHHL |
|----------------------------|-------------------------------------|

## Drive Bays / Storage

|                   |                                |
|-------------------|--------------------------------|
| <b>Drive Bays</b> | ▪ 1x 2.5" SATA/PCIe drive bays |
|-------------------|--------------------------------|

|            |  |
|------------|--|
| <b>M.2</b> | <ul style="list-style-type: none"> <li>▪ 2 M.2 NVMe OR 2 M.2 SATA3</li> <li>▪ M-Key/B-Key/E-Key, 2280/3042/2230</li> </ul> |
|------------|--|

## System Cooling

|             |                                  |
|-------------|----------------------------------|
| <b>Fans</b> | ▪ 3x 4-PIN PWM 40x40x28mm Fan(s) |
|-------------|----------------------------------|

## Power Supply

180W 12V Lockable DC Power Adapter

|                 |                                       |
|-----------------|---------------------------------------|
| <b>AC Input</b> | ▪ 150W: 100-240Vac / 2A Max / 47-63Hz |
|-----------------|---------------------------------------|

## Operating Environment

|                            |   |
|----------------------------|---|
| <b>Environmental Spec.</b> | <ul style="list-style-type: none"> <li>▪ Operating Temperature: 0°C ~ 45°C (32°F ~ 104°F)</li> <li>▪ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>▪ Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>▪ Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul> |
|----------------------------|---|



## Parts List

### Parts List - (Items Included)

|                              | Part Number         | Qty | Description  |
|------------------------------|---------------------|-----|--|
| <b>Motherboard / Chassis</b> | MBD-X12SDV-10C-SP6F | 1   | Super X12SDV-10C-SP6F Motherboard                  |
|                              | CSE-E300            | 1   | Mini-1U Chassis                                    |
|                              |                     |     |  |
| <b>Cable 1</b>               | CBL-0483L           | 2   | 29CM 30AWG SATA S/S CBL                            |
| <b>Cable 2</b>               | CBL-SAST-0886       | 1   | SATA 15pin x2 to 4pin /P2.5,40CM,22AWG,RoHS        |
| <b>FAN 1</b>                 | FAN-0100L4          | 3   | 40X28MM 4-PIN PWM FAN FOR SC510 & SC511            |
| <b>Power Supply</b>          | MCP-250-10128-0N    | 1   | 150W Lockable Power Adapter with US power cord     |
| <b>Power Supply</b>          | MCP-250-10133-0N    | 1   | 180W DC power adapter with US power cord 18AWG 6ft |