

# SuperServer 5018D-FN8T



## Integrated Board



## X10SDV-TP8F

## Key Features

- ☐ Compact Design, ☐ Cloud and Virtualization
- ☐ Network Appliance
- ☐ Embedded Application
- ☐ 7 year life cycle

1. Intel® Xeon® processor D-1518, Single socket FCBGA 1667; 4-Core, 8 Threads, 35W
2. 1x 3.5" or 4x 2.5" drive bays with bracket
3. 1x PCIe 3.0 x8 slot, M.2 PCIe 3.0 x4, M Key 2242/2280/22110, Mini-PCIe with mSATA support
4. Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 sockets
5. Dual 10G SFP+ and Six 1GbE LAN
6. I/O: 2x USB 3.0, VGA
7. Passive CPU heat sink and 3x 40mm chassis fans
8. DOM power connector
9. 200W Low-noise power supply w/ PFC

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Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

# Specifications

## Product SKUs

|                       |                                  |
|-----------------------|----------------------------------|
| <b>SYS-5018D-FN8T</b> | ■ SuperServer 5018D-FN8T (Black) |
|-----------------------|----------------------------------|

## Motherboard

### Super X10SDV-TP8F

## Processor/Cache

|            |                                                                                 |
|------------|---------------------------------------------------------------------------------|
| <b>CPU</b> | ■ Intel® Xeon® processor D-1518,<br>2.2GHz; CPU TDP support 35W<br>■ FCBGA 1667 |
|------------|---------------------------------------------------------------------------------|

|                      |                            |
|----------------------|----------------------------|
| <b>Cores / Cache</b> | ■ 4 Cores, 8 Threads / 6MB |
|----------------------|----------------------------|

## System Memory

|                        |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Memory Capacity</b> | ■ 4x DDR4 DIMM sockets<br>■ Supports up to 128GB DDR4 ECC RDIMM<br>■ Supports up to 64GB DDR4 ECC/non-ECC UDIMM |
|------------------------|-----------------------------------------------------------------------------------------------------------------|

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| <b>Memory Type</b> | ■ 2133/1866/1600MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM |
|--------------------|--------------------------------------------------------------|

|                   |                        |
|-------------------|------------------------|
| <b>DIMM Sizes</b> | ■ 32GB, 16GB, 8GB, 4GB |
|-------------------|------------------------|

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

|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| <b>Error Detection</b> | ■ Corrects single-bit errors<br>■ Detects double-bit errors<br>(using ECC memory) |
|------------------------|-----------------------------------------------------------------------------------|

## On-Board Devices

|             |                                          |
|-------------|------------------------------------------|
| <b>SATA</b> | ■ SoC controller for SATA3 (6Gbps) ports |
|-------------|------------------------------------------|

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| <b>Network Controllers</b> | ■ Dual 10G SFP+ from D-1500 SoC<br>■ Quad 1GbE with Intel I350-AM4<br>■ Dual 1GbE with Intel I210 |
|----------------------------|---------------------------------------------------------------------------------------------------|

|             |                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------|
| <b>IPMI</b> | ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support<br>■ Dedicated RJ45 IPMI LAN port |
|-------------|---------------------------------------------------------------------------------------------------|

|                 |                                 |
|-----------------|---------------------------------|
| <b>Graphics</b> | ■ BMC integrated ASPEED AST2400 |
|-----------------|---------------------------------|

## Input / Output

|             |                          |
|-------------|--------------------------|
| <b>SATA</b> | ■ 4x SATA3 (6Gbps) ports |
|-------------|--------------------------|

|            |                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------|
| <b>LAN</b> | ■ 2x 10G SFP+ ports<br>■ 6x RJ45 Gigabit Ethernet LAN ports<br>■ 1x RJ45 Dedicated IPMI LAN port |
|------------|--------------------------------------------------------------------------------------------------|

|            |                            |
|------------|----------------------------|
| <b>USB</b> | ■ 2x USB 3.0 ports (front) |
|------------|----------------------------|

|            |                                                |
|------------|------------------------------------------------|
| <b>DOM</b> | ■ 1x SATA DOM (Disk on Module) power connector |
|------------|------------------------------------------------|

|            |               |
|------------|---------------|
| <b>VGA</b> | ■ 1x VGA Port |
|------------|---------------|

|               |                  |
|---------------|------------------|
| <b>Others</b> | ■ TPM 2.0 header |
|---------------|------------------|

## Chassis

|                    |                |
|--------------------|----------------|
| <b>Form Factor</b> | ■ 1U Rackmount |
|--------------------|----------------|

|              |                       |
|--------------|-----------------------|
| <b>Model</b> | ■ <b>CSE-505-203B</b> |
|--------------|-----------------------|

## Dimensions and Weight

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

|              |                 |
|--------------|-----------------|
| <b>Width</b> | ■ 17.2" (437mm) |
|--------------|-----------------|

|              |                |
|--------------|----------------|
| <b>Depth</b> | ■ 9.8" (249mm) |
|--------------|----------------|

|               |                                                                   |
|---------------|-------------------------------------------------------------------|
| <b>Weight</b> | ■ Net Weight: 8 lbs (3.63 kg)<br>■ Gross Weight: 12 lbs (5.44 kg) |
|---------------|-------------------------------------------------------------------|

|                         |         |
|-------------------------|---------|
| <b>Available Colors</b> | ■ Black |
|-------------------------|---------|

## Front Panel

|                |                                                |
|----------------|------------------------------------------------|
| <b>Buttons</b> | ■ Power On/Off button<br>■ System Reset button |
|----------------|------------------------------------------------|

|             |                                                                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>LEDs</b> | ■ Power LED<br>■ Hard drive activity LED<br>■ 2x Network activity LEDs<br>■ System Overheat LED<br>■ Information LED (temp., status) |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|

## Expansion Slots

|              |                                                                                                      |
|--------------|------------------------------------------------------------------------------------------------------|
| <b>PCI-E</b> | ■ 1x PCIe 3.0 x8 slots<br>■ M.2 PCIe 3.0 x4, M Key 2242/2280/22110<br>■ Mini-PCIe with mSATA support |
|--------------|------------------------------------------------------------------------------------------------------|

## Drive Bays

|            |                                                    |
|------------|----------------------------------------------------|
| <b>HDD</b> | ■ 1x 3.5" or 4x 2.5" fixed drive bays with bracket |
|------------|----------------------------------------------------|

## System Cooling

|             |                                      |
|-------------|--------------------------------------|
| <b>Fans</b> | ■ Passive Heatsink, 40mm chassis fan |
|-------------|--------------------------------------|

## Power Supply

200W Low Noise AC-DC power supply with PFC

|                   |                                    |
|-------------------|------------------------------------|
| <b>AC Voltage</b> | ■ 100 - 240V, 50-60Hz, 2.6 Amp Max |
|-------------------|------------------------------------|

|            |                  |
|------------|------------------|
| <b>+5V</b> | ■ 8.0 Amp (max.) |
|------------|------------------|

|                    |                  |
|--------------------|------------------|
| <b>+5V standby</b> | ■ 2.0 Amp (max.) |
|--------------------|------------------|

|             |                 |
|-------------|-----------------|
| <b>+12V</b> | ■ 16 Amp (max.) |
|-------------|-----------------|

|             |                  |
|-------------|------------------|
| <b>-12V</b> | ■ 0.5 Amp (max.) |
|-------------|------------------|

|              |                  |
|--------------|------------------|
| <b>+3.3V</b> | ■ 8.0 Amp (max.) |
|--------------|------------------|

|                      |                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------|
| <b>Certification</b> |  Gold Certified |
|----------------------|------------------------------------------------------------------------------------------------------|

## System BIOS

|                  |                                 |
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| <b>BIOS Type</b> | ■ 128Mb SPI Flash with AMI BIOS |
|------------------|---------------------------------|

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|                      |                                                                                                                                                                                                                                     |
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| <b>BIOS Features</b> | <ul style="list-style-type: none"><li>■ PCI 3.0</li><li>■ ACPI 5.0</li><li>■ USB Keyboard support</li><li>■ Hardware BIOS Virus protection</li><li>■ SMBIOS 2.8</li><li>■ UEFI 2.4</li><li>■ RTC (Real Time Clock) Wakeup</li></ul> |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Operating Environment / Compliance

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| <b>RoHS</b> | <ul style="list-style-type: none"><li>■ RoHS Compliant</li></ul> |
|-------------|------------------------------------------------------------------|

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental Spec.</b> | <ul style="list-style-type: none"><li>■ Operating Temperature:<br/>10°C to 40°C (50°F to 104°F)</li><li>■ Non-operating Temperature:<br/>-40°C to 70°C (-40°F to 158°F)</li><li>■ Operating Relative Humidity:<br/>8% to 90% (non-condensing)</li><li>■ Non-operating Relative Humidity:<br/>5% to 95% (non-condensing)</li></ul> |
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# Parts List

## Parts List - (Items Included)

|                       | Part Number      | Qty | Description                                                                        |
|-----------------------|------------------|-----|------------------------------------------------------------------------------------|
| Motherboard / Chassis | MBD-X10SDV-TP8F  | 1   | Super X10SDV-TP8F Motherboard                                                      |
|                       | CSE-505-203B     | 1   | 1U Chassis                                                                         |
| Cable 1               | CBL-0082L        | 1   | Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG                     |
| Cable 2               | CBL-SAST-0538    | 2   | SATA,INT,ROUND,ST-RA,29CM,30AWG                                                    |
| FAN 1                 | FAN-0065L4       | 3   | 4028mm 13K RPM 4-PIN PWM FAN for SC813MF, SC113M                                   |
| Drive Tray(s)         | MCP-220-00051-0N | 2   | Single 2.5                                                                         |
| Rear Window           | MCP-240-00091-0N | 1   | 1U universal riser card bracket for standard chassis,HF,RoHS/REACH,PBF             |
| Parts                 | MCP-260-00100-0B | 1   | 1U I/O Shield                                                                      |
| Fan Holder            | MCP-320-81302-0B | 3   | Optional fan tray for one 40x28mm fan in SC813T/SC813LT-single PWS (Fan tray only) |
| Riser Card            | RSC-RR1U-E8      | 1   | RSC-RR1U-E8                                                                        |
| Power Supply          | PWS-203-1H       | 1   | 1U 200W Multi-output 80Plus Gold PWS                                               |

## Optional Parts List

|             | Part Number      | Qty | Description                                             |
|-------------|------------------|-----|---------------------------------------------------------|
| Air Shroud  | MCP-310-50502-0B | -   | Air shroud                                              |
| HDD Bracket | MCP-220-00044-0N | -   | Retention Bracket for up to 2x 2.5" HDD                 |
| HDD Bracket | MCP-220-00051-0N | -   | Retention Bracket for 1 x 2.5" HDD                      |
| SuperDOM    | -                | -   | Supermicro SATA DOM Solutions <a href="#">[Details]</a> |