



Key Features

- uCPE Network Appliance
- Network Security Appliance
- Virtualization

1. Single Socket H4 (LGA 1151) supports Intel® Xeon® processor E-2100 / E-2200 series, 8th Gen. Intel® Core™ i3 Processors, Intel® Celeron®, Intel® Pentium®

2. Intel® C246 chipset

3. Up to 128GB unbuffered ECC UDIMM, DDR4-2666MHz; 4 DIMM slots

4. 1 PCI-E 3.0 x16 (FHFL) slot

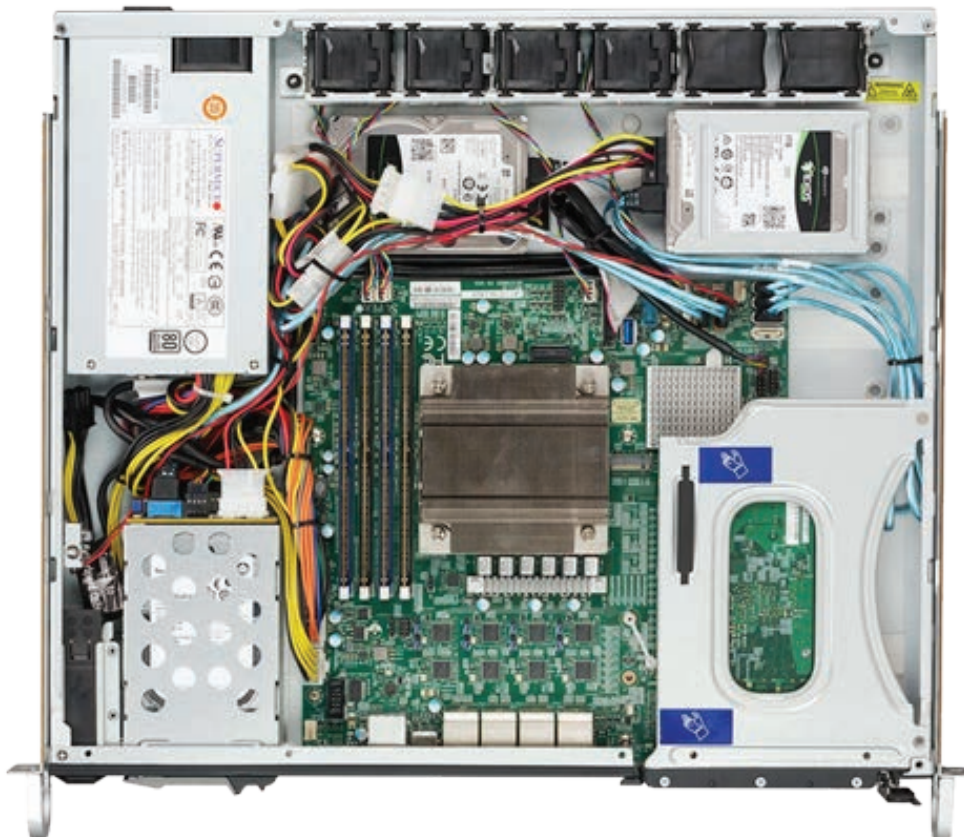
5. 2 Hot-swap 2.5" SATA3 drive bays, 2 Internal 2.5" SATA3 drive bays (SSD only)

6. **M.2 Interface:**
1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4
M.2 Form Factor: 2280/22110
M.2 Key: M-Key

7. 8 GbE LAN ports, 1 Dedicated IPMI LAN

8. 2 USB 3.1, 2 USB 2.0, 1 VGA

9. 350W AC-DC multiple output Platinum Level Power Supply



Specifications

Product SKUs

SYS-1019C-FHTN8	■ SuperServer 1019C-FHTN8 (Black)
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Motherboard

Super X11SCM-LN8F

Processor

CPU	■ Single Socket H4 (LGA 1151), CPU TDP support up to 80W ■ Support Intel® Xeon® processor E-2100 / E-2200 series, 8th Gen. Intel® Core™ i3 Processors, Intel® Celeron®, Intel® Pentium®
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System Memory

Memory Capacity	■ 4 DIMM slots ■ Up to 128GB Unbuffered ECC UDIMM
Memory Type	■ 2666/2400/2133MHz ECC DDR4 SDRAM
DIMM Sizes	■ 32GB, 16GB, 8GB, 4GB
Note	■ 128GB system memory capacity will be available in 2019 through a published BIOS update.

On-Board Devices

Chipset	■ Intel® C246 chipset
SATA	■ Intel® C246 controller for SATA3 (6 Gbps) ports; RAID 0, 1, 5, 10
IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ■ ASPEED AST2500 BMC
Network Controllers	■ Eight LAN with Intel® I210-AT
Video	■ VGA via Aspeed AST2500 BMC

Input / Output

SATA	■ 5 SATA3 (6Gbps) ports
LAN	■ 8 RJ45 Gigabit Ethernet LAN ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	■ 2 USB 3.1 ports (front) ■ 2 USB 2.0 ports (front)
Video	■ 1 VGA port
Serial Port / Header	■ 1 COM port (option)

System BIOS

BIOS Type	■ UEFI 256Mb
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Management

Software	■ Intel® Node Manager ■ IPMI 2.0 ■ NMI ■ SSM , SPM , SUM ■ Watch Dog ■ SuperDoctor® 5
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Chassis

Form Factor	■ 1U Rackmount
Model	■ CSE-513BTQC-350B

Dimensions and Weight

Height	■ 1.7" (43mm)
Width	■ 17.2" (437mm)
Depth	■ 15" (381mm)
Package	■ 8" (H) x 24" (W) x 27" (D)
Weight	■ Gross Weight: 14.1 lbs (6.4 kg) ■ Net Weight: 10.0 lbs (4.54 kg)
Available Colors	■ Black front panel with silver chassis

Front Panel

Buttons	■ Power On/Off button ■ System Reset button
LEDs	■ Power LED ■ Hard drive activity LED ■ Network activity LEDs ■ System Information LED

Expansion Slots

PCI-Express	■ 1 PCI-E 3.0 x16 (FHFL) slot
M.2	■ M.2 Interface: 1 SATA/PCI-E 3.0 x4 and 1 PCI-E 3.0 x4 ■ M.2 Form Factor: 2280/22110 ■ M.2 Key: M-Key

Drive Bays

Hot-swap	■ 2 Hot-swap 2.5" SATA3 drive bays
Internal	■ 2 Internal 2.5" SATA3 drive bays (SSD only)

System Cooling

Fans	■ 4x 40x28mm 4-pin PWM fans (optional: 2 additional fans)
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Power Supply

350W AC power supply w/ PFC

AC Voltage	■ 100-240 V, 50-60 Hz, 5.0-2.5 Amp
+5V	■ Max.: 15 Amp ■ Min.: 0.2 Amp
+5V standby	■ Max.: 3 Amp ■ Min.: 0 Amp
+12V	■ Max.: 29 Amp ■ Min.: 0.5 Amp
-12V	■ Max.: 0.2 Amp ■ Min.: 0 Amp
+3.3V	■ Max.: 12 Amp ■ Min.: 0.2 Amp

Certification



Platinum Level Certified
[[Test Report](#)]

Operating Environment / Compliance

RoHS	■ RoHS Compliant
Environmental Spec.	■ Operating Temperature: 0°C to 40°C (32°F to 104°F) ■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) ■ Operating Relative Humidity: 8% to 90% (non-condensing) ■ Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11SCM-LN8F	1	Super X11SCM-LN8F Motherboard
	CSE-513BTQC-350B	1	1U Chassis
Backplane	BPN-SAS3-826TQ-B2B	1	2-port 2U SAS3 12Gbps backplane, support up to 2x 2.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-0206L	2	SATA,INT,ROUND,ST-ST,48CM,26AWG
Cable 2	CBL-0296L	1	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 3	CBL-CDAT-0662	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,ROUND CABLE,61.5CM,28AWG
Parts	MCP-150-00015-0B	1	Rubber pad, 3.0mm H, 10x10mm
Parts	MCP-260-00131-0B	1	1U I/O Shield for SC513B & X11SCL-LN4F with EMI Gasket, black color
Air Shroud	MCP-310-51302-0B	1	Mylar Air shroud for SC513B with UP X11SCM MB
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PIC-E x16 output
Heatsink / Retention	SNK-P0049P	1	1U Passive Enhanced Performance CPU Heat Sink for Intel Socket H Series Processors
* Power Supply	PWS-350-1H	1	1U Single AC-DC 350W Platinum Level, multiple output power supply (180mm)
* Cable 4	CBL-0160L	1	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
* Cable 5	CBL-0335L	1	CBL,FRONT CNTL,20 TO 20 PIN,RA,RND TUBE,73CM,28AWG
* FAN 1	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
* Drive Tray(s)	MCP-220-00180-0B	2	2.5\ New ID gen 3 hot-swap HDD tray with lock feature (with plastic bracket)
* Parts	MCP-260-00078-0B	1	1U I/O shield for X11 Server MB with 5X5mm vent hole and EMI Gasket, Black
* Front Panel	MCP-280-80901-0N	1	SC809 FRONT CONTROL PANEL ASSY
* Rail Set	MCP-290-00102-0N	1 set	Outer rail, quick-release type, 25.6\ to 33.05\
* Rail Set	MCP-290-00108-0B	1 set	Inner rail, front, short (quick) for 1U 17.2
* Fan Holder	MCP-320-00060-0N	1	Fan tray for six 40x28 fans in SC813M (for X11DPL-i 12\ x10.15\)
* Parts	MCP-340-00001-01	2	Dummy fan 40x28mm

Notes:

1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.