

## SuperChassis 113MFAC2-341CB

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- ▶ [\*\*Chassis Manual\*\*](#)
- ▶ [\*\*Optimization\*\*](#)

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

### Key Features

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1. 1U Chassis for motherboard support size: (12" x 10") (ATX 12" x 10")
  2. 8 x 2.5" hot-swap SAS/SATA drive bay
  3. 8-port 1U SAS3 12Gbps Hybrid backplane, support up to 6x 2.5-inch SAS3/SATA3 HDD/SSD and 2x SAS3/SATA3/NVMe Storage Devices
  4. 1U 340W Multi-output power supply W/PMbus, Platinum level
  5. 1 full-height & full-length expansion slot(s)
  6. 4 x 40x28mm PWM fan(s)
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# Specifications

## Product SKUs

- **CSE-113MFAC2-341CB** ■ SuperChassis 113MFAC2-341CB

## Form Factor

- 1U Chassis for motherboard support size: (12" x 10") (ATX 12" x 10")

## Processor Support

- Single Intel® and AMD processors

## Dimensions

**Height** ■ 1.7" (43 mm)

**Width** ■ 17.2" (437 mm)

**Depth** ■ 19.98" (507 mm)

**Net Weight** ■ 18.5 lbs (8.39 kg)

**Gross Weight** ■ 29.5 lbs (13.38 kg)

**Packaging (W x H x L)** ■ 24" (610 mm) x 8.3" (211 mm) x 30" (762 mm)

**Available Color** ■ Black

## Expansion Slots

- 1 full-height & full-length expansion slot(s)

## Drive Bays

- 8 x 2.5" hot-swap SAS/SATA drive bay

## Backplane

- 8-port 1U SAS3 12Gbps Hybrid backplane, support up to 6x 2.5-inch SAS3/SATA3 HDD/SSD and 2x SAS3/SATA3/NVMe Storage Devices

## Peripheral Drives

- Optional 1 x slim DVD-ROM drive bay

## Front Panel

- Buttons**
- Power On/Off button
  - System Reset Button

- LEDs**
- 2 Network Activity LEDs
  - HDD activity LED
  - Power Status LED
  - Unit Identification (UID) LED

## Systems Cooling

- Fans** ■ 4 x 40x28mm PWM fan(s)

## Operating Environment (System)

- Operating Temperature Range** ■ 5°C - 35°C (41°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)

## Power Supply

1U 340W Multi-output power supply W/PMbus, Platinum level

- Power Efficiency** ■ 93%

- Total Output Power and Input** ■ 340W with Input 100 - 240Vac

- AC Input Frequency** ■ 50-60Hz

- Dimensions (L x W x H)** ■ 279.4 x 76 x 40.4 mm

- Output Type** ■ 24pin ATX

- 12V** ■ Max: 0.5A / Min: 0A

- +12V** ■ Max: 28A / Min: 0.5A (100Vac - 240Vac)

- +5V** ■ Max: 16A / Min: 0.5A

- +3.3V** ■ Max: 15A / Min: 0.5A

- +5Vsb** ■ Max: 3A / Min: 0A

- +12Vsb** ■ Max: NAA

- Certification** ■  **Platinum Certified**

## Regulatory (Power Supply)

- Power Supply Safety / EMC**
- CE/EMC
  - FCC class B
  - TUV/CB
  - UL/CUL

## Components

### Standard Parts List

	Part Number	Qty	Description
<b>HD Backplane</b>	BPN-SAS3-113A-N2	1	8-port 1U SAS3 12Gbps Hybrid backplane, support up to 6x 2.5-inch SAS3/SATA3 HDD/SSD and 2x SAS3/SATA3/NVMe Storage Devices
<b>Cable(S)</b>	CBL-0335L	1	FRONT CTL CABLE 20 PIN TO 20 PIN W/TUBE,70CM,PBF
<b>CD-ROM &amp; Accessory</b>	MCP-290-00036-0B	1	Black DVD dummy tray support 1x2.5 HDD for SC113,815,825,836
<b>Fan(s)</b>	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
<b>Front Panel</b>	FPB-FP112	1	Front control board for SC113,113M (U/C share)
<b>Cooling Fan &amp; Accessory</b>	MCP-320-00031-0B	1	Fan tray for six 40x28 fans(SC813M/113M)
<b>Drive Tray(s)</b>	MCP-220-00047-0B	8	Black gen 3rd hot-swap 2.5inch HDD tray
<b>Part(s)</b>	MCP-290-00037-0N	1	SC113 Control panel module (w/o DVD)
<b>Part(s)</b>	MCP-340-00001-01	2	Dummy fan 40x28mm
<b>Part(s)</b>	MCP-260-00078-0N	1	1U I/O shield for X10 and X9 Server MB with 5X5mm vent hole and EMI Gasket,RoHS/REACH,PBF
<b>Power Supply &amp; Accessory</b>	PWS-341P-1H	1	1U 340W Multi Output with PMBus Power Supply 24Pin
<b>Mounting Rail(s)</b>	MCP-290-00102-0N	1set	Outer rail, quick-release type, 25.6" to 33.05"
<b>Mounting Rail(s)</b>	MCP-290-00107-0N	1set	Inner rail, front, short, screw type
<b>Mounting Rail(s)</b>	MCP-290-00110-0N	1set	Inner rail, extension (quick) for 1U 17.2
<b>Rear Window</b>	MCP-240-00085-0N	1	STD rear window for SC113 single PWS

### Optional Parts List

	Part Number	Qty	Description
<b>Air Shroud</b>	MCP-310-19007-0N	-	SC811/SC512L/SC512F/SC813M/SC113M/SC513L-410B/SC513L-420B/SC513F, UP X9SRE/I, X9 Mylar Air Shroud, 12"x9.6" MB
<b>Air Shroud</b>	MCP-310-19009-0N	-	SC811, SC111, SC813M, SC113M, SC512F-280/350/410/520/600, SC513L-410/420, DP X9DBL ,X9 Mylar Air Shroud, 12"x10" MB
<b>Air Shroud</b>	MCP-310-19015-0N	-	SC813M,SC113M, DP X9DRL-EF/ X9DRL-7F/ X10DRL-i, X9/X10 mylar air shroud, 12"x10" MB,RoHS/REACH
<b>2.5" HDD Bracket</b>	MCP-290-00036-0B	-	Black DVD dummy tray support 1x2.5 HDD for SC113,815,825,836
<b>Front USB</b>	MCP-220-00087-0B	-	Black USB tray for slim DVD bay
<b>Rail</b>	CSE-PT52L	-	Sliver chassis rail set for SC813M,515,113M

### Motherboard (for CSE- 113MFAC2-341CB)

<u>X11SSH-F</u>	<u>X11SSH-LN4F</u>	<u>X11SSi-LN4F</u>	<u>X11SSL-F</u>
<u>X11SSL</u>	<u>X11SSM-F</u>	● <u>X11SSM</u>	<u>X11SSH-CTF</u>
<u>X11SSH-TF</u>	<u>X11SPi-TF</u>	<u>X11SPL-F</u>	<u>X11SPM-TF</u>
<u>X11SPM-TPE</u>	<u>X11SPM-F</u>		

● = Most optimized Chassis for SuperServer Configuration

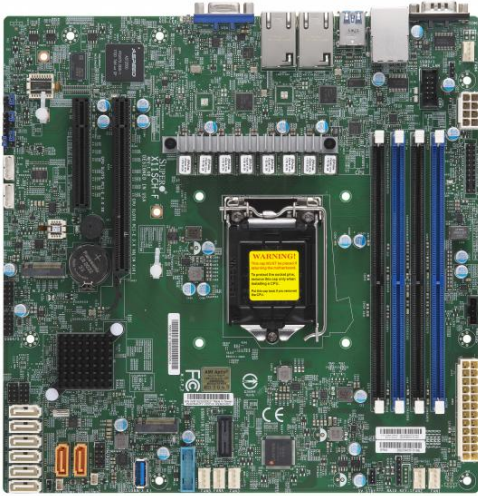
Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU

# X11SCH-F

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## Key Features

1. 8th/9th Generation Intel® Core™ i3/Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor., Single Socket LGA-1151 (Socket H4) supported, CPU TDP support Up to 95W TDP

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2. Intel® C246 chipset

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

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4. Expansion slots: 1 PCI-E 3.0 x8 (in x16) and 1 PCI-E 3.0 x8 slots

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5. Dual GbE LAN ports via Intel® i210

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6. 8 SATA3 (6Gbps) via C246; RAID 0, 1, 5, 10

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7. I/O: 1 VGA, 2 COM, TPM header

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8. 2 SuperDOM with built-in power

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9. 2 USB 3.1 Gen 2 (rear); 3 USB 3.1 Gen 1 (1 Type A, 2 via header(s)); 6 USB 2.0 (2 rear, 4 via header(s))

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10. 2x M.2 NGFF connectors  
M.2 Interface: PCI-E 3.0 x4  
Form Factor: 2280, 22110  
Key: M-Key  
Double Height Connector

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## 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 Driver CD](#)

[OS Compatibility](#)

[Optimization](#)

# Specifications

## Product SKUs

<b>MBD-X11SCH-F</b>	■ X11SCH-F
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## Physical Stats

<b>Form Factor</b>	■ Micro-ATX
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<b>Dimensions</b>	■ 9.6" x 9.6" (24.38cm x 24.38cm)
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## Processor/Cache

<b>CPU</b>	<ul style="list-style-type: none"> <li>■ 8th/9th Generation Intel® Core™ i3/Pentium®/Celeron® Processor, Intel® Xeon® E-2100 Processor, Intel® Xeon® E-2200 Processor.</li> <li>■ Single Socket LGA-1151 (Socket H4) supported, CPU TDP support Up to 95W TDP</li> </ul>
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<b>Cores / Cache</b>	■ 8 cores, 16 threads
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<b>Note</b>	■ BIOS version 1.0b or above is required to support Intel® Xeon® E-2200 and 9th Generation Intel® Core™ i3/Pentium®/Celeron® Processors
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## System Memory

<b>Memory Capacity</b>	■ Up to 128GB DDR4 ECC UDIMM, DDR4-2666MHz, in 4 DIMM slots
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<b>Memory Type</b>	■ 2666/2400/2133MHz ECC DDR4 SDRAM 72-bit
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<b>DIMM Sizes</b>	■ 4GB, 8GB, 16GB, 32GB
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<b>Memory Voltage</b>	■ 1.2V
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<b>Error Detection</b>	■ Corrects single-bit errors
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## On-Board Devices

<b>Chipset</b>	■ Intel® C246
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<b>SATA</b>	■ Intel® C246 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
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<b>IPMI</b>	■ ASPEED AST2500
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<b>Network Controllers</b>	■ Dual LAN with Intel® Ethernet Controller I210
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<b>Graphics</b>	■ Aspeed AST2500 BMC
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## Input / Output

<b>USB</b>	■ 6x USB 2.0 ports (2 rear, 4 via headers); 2x USB 3.1 Gen2 ports (rear); 3x USB 3.1 Gen1 ports (1 Type-A, 2 via header)
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<b>Video Output</b>	■ 1 VGA port
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<b>Serial Port / Header</b>	■ 2 COM Ports (1 rear, 1 header)
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<b>TPM</b>	■ 1 TPM Header
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## Expansion Slots

<b>PCI-E</b>	<ul style="list-style-type: none"> <li>■ 1 PCI-E 3.0 x8 (in x16 slot),</li> <li>■ 1 PCI-E 3.0 x8</li> </ul>
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<b>M.2</b>	<ul style="list-style-type: none"> <li>■ M.2 Interface: PCI-E 3.0 x4</li> <li>■ Form Factor: 2280, 22110</li> <li>■ Key: M-Key</li> <li>■ Double Height Connector</li> </ul>
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## System BIOS

<b>BIOS Type</b>	■ UEFI 256Mb
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<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>■ ACPI 6.0</li> <li>■ SMBIOS 2.7</li> <li>■ Plug and Play (PnP)</li> <li>■ RTC (Real Time Clock) Wakeup</li> <li>■ UEFI 2.7</li> <li>■ USB Keyboard support</li> <li>■ PCI 3.0</li> </ul>
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## Management

<b>Software</b>	■ Intel® Node Manager, IPMI2.0, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
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<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>
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## PC Health Monitoring

<b>Voltage</b>	■ +12V, +3.3V, +5V, +5V standby, 6 -fan status, Chassis intrusion header, Chipset Voltage, Memory Voltages, Monitors CPU voltages, Supports system management utility, System level control, VBAT
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<b>FAN</b>	■ 6x 4-pin fan headers (up to 6 fans), 6 fans with tachometer status monitoring, Fan speed control, Overheat LED indication, Thermal control tachometer fan connectors
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<b>Temperature</b>	■ N/A
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<b>LED</b>	■ CPU / System Overheat LED, UID/Remote UID
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<b>Other Features</b>	■ ACPI power management, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Dual Cooling Zones, M.2 NGFF connector, Node Manager Support, UID, WOL
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## Operating Environment

<b>Operating Temperature Range</b>	■ 0°C ~ 50°C (32°F ~ 122°F)
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<b>Non-Operating Temperature Range</b>	■ -40°C - 70°C (-40°F - 158°F)
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<b>Operating Relative Humidity Range</b>	■ 8% - 90% (non-condensing)
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<b>Non-Operating Relative Humidity Range</b>	■ 5% - 95% (non-condensing)
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