

# SuperChassis 847BE1C-R1K28LPB

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► **Chassis Manual**  
► **Optimization**

## Key Features

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1. 4U Chassis for motherboard support size: (12" x 10") (13.68" x 13") (9.6" x 9.6")
  2. 36 x 3.5" hot-swap SAS/SATA drive bay with SES3, optional 2 x 2.5" hot-swap drive bay
  3. 12-port 2U SAS3 12Gbps single-expander backplane, support up to 12x 3.5-inch SAS3/SATA3 HDD/SSD
  4. 24-port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD
  5. 1U 1280W Redundant Platinum 95%+ Super Quiet Power Supply with PMbus
  6. 7 low-profile expansion slot(s)
  7. 7 x 8cm (7000 RPM) hot-swap PWM cooling fan(s)
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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

- CSE-847BE1C-R1K28LPB** ■ SuperChassis 847BE1C-R1K28LPB

## Form Factor

- 4U Chassis for motherboard support size: (12" x 10") (13.68" x 13") (9.6" x 9.6")

## Processor Support

- Single and Dual Intel® and AMD processors

## Dimensions

- Height** ■ 7" (178 mm)
- Width** ■ 17.2" (437 mm)
- Depth** ■ 27.5" (699 mm)
- Gross Weight** ■ 91 lbs (41.28 kg)
- Packaging (W x H x L)** ■ 27.2" (691 mm) x 17.4" (442 mm) x 39.6" (1006 mm)
- Available Color** ■ Black

## Expansion Slots

- 7 low-profile expansion slot(s)

## Drive Bays

- 36 x 3.5" hot-swap SAS/SATA drive bay with SES3
- Optional 2 x 2.5" hot-swap drive bay

## Backplane

- 12-port 2U SAS3 12Gbps single-expander backplane, support up to 12x 3.5-inch SAS3/SATA3 HDD/SSD
- 24-port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD

## Peripheral Drives

- Optional 2 x 3.5" internal fixed drive bay
- Optional 4 x 2.5" internal fixed drive bay

## Front Panel

- Buttons** ■ Power On/Off button  
■ System Reset Button
- LEDs** ■ 2 Network Activity LEDs  
■ Fan Fail/System Over Heat LED  
■ HDD activity LED  
■ Power Status LED  
■ Unit Identification (UID) LED

## Systems Cooling

- Fans** ■ 7 x 8cm (7000 RPM) hot-swap PWM cooling fan(s)

## System Monitoring

- Chassis intrusion switch

## 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 1280W Redundant Platinum 95%+ Super Quiet Power Supply with PMbus

- Power Efficiency** ■ 95%
- Total Output Power and Input** ■ 1000W with Input 100 - 140Vac  
■ 1280W with Input 180 - 240Vac
- AC Input Frequency** ■ 50-60Hz
- Dimensions (L x W x H)** ■ 336 x 76 x 40 mm
- Output Type** ■ Backplanes (gold finger)
- 12V** ■ Max: NAA
- +12V** ■ Max: 83A / Min: 0.5A (100Vac - 140Vac)  
■ Max: 106.7A / Min: 0.5A (180Vac - 240Vac)
- +5Vsb** ■ Max: 4A / Min: 0A
- +12Vsb** ■ Max: NAA
- Power Distributor** ■ PDB-PT847-8824  
■ O/P: 12V/135  
■ +5V Max: 100  
■ +3.3V Max: 30  
■ -12V Max: 0.6

## Certification

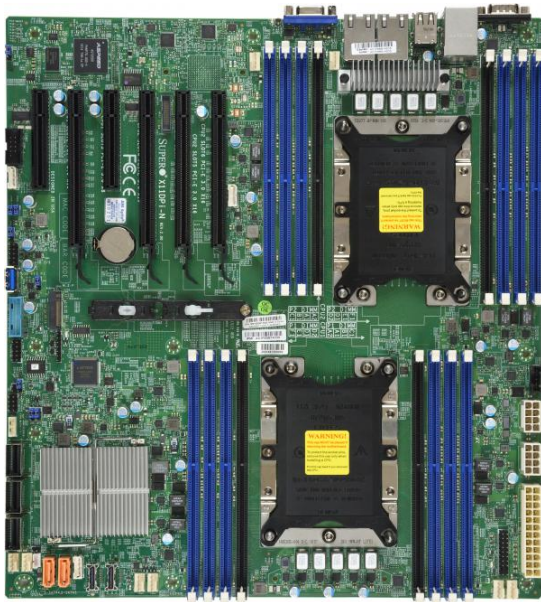
-  **Platinum Certified**

## Regulatory (Power Supply)

- Power
  - Supply
  - Safety / EMC
  - BSMI
  - CCC
  - CE/EMC
  - FCC class B
  - TUV/CB
  - UL/CUL
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# X11DPi-NT

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## Dual 10GbE

### Key Features

1. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors,  
Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s
2. Intel® C622
3. Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz  
Or 2TB DCPMM, DDR4-2666MHz, in 16 DIMM slots;  
Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only);
4. 4 PCI-E 3.0 x16,  
2 PCI-E 3.0 x8  
**M.2 Interface:** PCI-E 3.0 x4  
**M.2 Form Factor:** 2260, 2280, 22110  
**M.2 Key:** M-Key,  
2 PCI-E 3.0 NVMe x4 Internal Port(s)
5. 1 VGA port
6. Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
7. Dual LAN with 10GBase-T with Intel® X722 + X557

## 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](#)
- [Optimization](#)



# Specifications

## Product SKUs

<b>MBD-X11DPi-NT</b>	■ X11DPi-NT
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## Physical Stats

<b>Form Factor</b>	■ E-ATX
<b>Dimensions</b>	■ 12" x 13" (30.48cm x 33.02cm)

## Processor/Cache

<b>CPU</b>	■ 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, ■ Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 2 UPI up to 10.4 GT/s
<b>Cores / Cache</b>	■ Up to 28 cores
<b>Note</b>	■ BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP ■ BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

## System Memory

<b>Memory Capacity</b>	■ Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz ■ Or 2TB DCPMM, DDR4-2666MHz, in 16 DIMM slots; ■ Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only); ■
<b>Memory Type</b>	■ 2933/2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM
<b>DIMM Sizes</b>	■ RDIMM: 64GB ■ LRDIMM: 128GB ■ 3DS LRDIMM: 256GB
<b>Memory Voltage</b>	■ 1.2V
<b>Error Detection</b>	■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)

## On-Board Devices

<b>Chipset</b>	■ Intel® C622
<b>SATA</b>	■ Intel® C622 controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10
<b>IPMI</b>	■ ASPEED AST2500
<b>Network Controllers</b>	■ Dual LAN with 10GBase-T with Intel® X722 + X557
<b>Graphics</b>	■ Aspeed AST2500 BMC

## Input / Output

<b>SATA</b>	■ 14 SATA3 (6Gbps) port
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## Expansion Slots

<b>PCI-E</b>	■ 4 PCI-E 3.0 x16, ■ 2 PCI-E 3.0 x8
<b>M.2</b>	■ M.2 Interface: PCI-E 3.0 x4 ■ Form Factor: 2260, 2280, 22110 ■ Key: M-Key

## System BIOS

<b>BIOS Type</b>	■ AMI UEFI
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## Management

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

<b>Voltage</b>	■ +12V, +3.3V, +5V, +5V standby, 3.3V standby, Monitors CPU voltages
<b>FAN</b>	■ 8x 4-pin fan headers (up to 8 fans), PWM fan speed control
<b>Temperature</b>	■ CPU thermal trip support, Monitoring for CPU and chassis environment, PECI
<b>LED</b>	■ CPU / System Overheat LED, UID/Remote UID, BMC/IPMI Heartbeat LED, Power LED
<b>Other Features</b>	■ ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, NCSI header, Node Manager Support, RoHS, SDDC, UID

## Operating Environment

<b>Operating Temperature Range</b>	■ 10°C - 35°C (50°F - 95°F)
<b>Non-Operating Temperature Range</b>	■ -40°C - 70°C (-40°F - 158°F)
<b>Operating Relative Humidity Range</b>	■ 8% - 90% (non-condensing)
<b>Non-Operating Relative Humidity Range</b>	■ 5% - 95% (non-condensing)

<b>USB</b>	<ul style="list-style-type: none"><li>■ 4 USB 2.0 ports (2 rear + 2 headers)</li><li>■ 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)</li></ul>
<b>Video Output</b>	<ul style="list-style-type: none"><li>■ 1 VGA port</li></ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"><li>■ 2 COM Ports (1 rear, 1 header)</li></ul>
<b>TPM</b>	<ul style="list-style-type: none"><li>■ 1 TPM Header</li></ul>