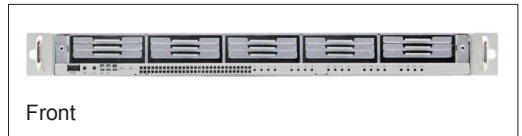
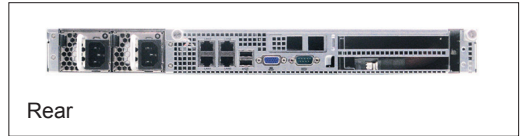


# SB112-CT



Storage Server Barebone

PLATFORM SOLUTIONS GROUP (PSG)



Dimensions (W x D x H)  
(with chassis ears/protrusions)  
mm : 482.6 x 660.4 x 44.4  
inches : 19 x 26 x 1.75

## Features & Benefits

- 1 Intel® 5520 + Intel® ICH10R with 5+ year life cycle
- 2 Flexible I/O usage with Max I/O - up to 5 OTS (off-the-shelf) cards in 1U (4 half-length, full-height + 1 half-length, low-profile)
- 3 26" depth 1U barebone
- 4 Front-to-back airflow provides optimal thermal conditions
- 5 Customizable to meet your requirements

## SPECIFICATIONS

### Motherboard

**Motherboard** Castor (PSG-M-CTDP036D-110)

### Processor

**Processor**

- Quad-Core Intel® Xeon® Processor 5500 Series (W5580, X5570, X5560, X5550, E5540, E5530, E5520, E5506, E5504, L5520, L5506)
- Dual-Core Intel® Xeon® Processor 5500 Series (E5502)

**CPU Type**

- Dual FCLGA1366 socket
- Supports single or dual Intel® Xeon® Processor 5500 series

**System Bus** 800/1066/1333 MHz (DDR3 Memory)

### Front Panel

#### Buttons

- Power ON/OFF
- System reset
- System ID
- NMI

#### LEDs

- Power
- Hard drive activity
- Network activity
- System ID
- System warning

### Drive Bays

**Drive Bays** • Twenty(20) x 1.8" hot-swap hard drive bays (thickness of drive ≈ 7mm)

### Expansion Slots

**Expansion Slots**

- 4 x PCIe x8
- 1 x PCIe x8 (logically x4)



## System Memory

<b>System Memory</b>	<ul style="list-style-type: none"> <li>• Twelve(12) 240-pin DIMM sockets</li> <li>• Supports up to 192 GB of DDR3 800/1066/1333 MHz Registered ECC SDRAM</li> </ul>
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## System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>• AMI BIOS</li> <li>• SPI (Serial Peripheral Interface) FLASH Interface</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>• ACPI 1.0/2.0/3.0</li> <li>• PXE 2.0</li> <li>• AC loss recovery</li> <li>• IPMI KCS interface</li> <li>• SMBIOS 2.0</li> <li>• Serial console re-direction</li> </ul>

## On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>• Intel® 5520 Chipsets (Tylersburg-EP)</li> <li>• Intel® ICH10R</li> </ul>
<b>SATA</b>	Built-in Intel® ICH10R SATA2 controller with RAID support <ul style="list-style-type: none"> <li>• RAID 0, 1, 5, 10 (Windows)</li> <li>• RAID 0, 1, 10 (Linux)</li> </ul>
<b>IPMI</b>	Aspeed AST2050 BMC <ul style="list-style-type: none"> <li>• Intelligent Platform Management Interface 2.0(IPMI 2.0)</li> <li>• iKVM, Media Re-direction, IPMI over LAN, Serial over LAN</li> <li>• SMASH support</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>• Intel® 82571EB (Ophir) PCI Express dual-port GbE controller; MAC/PHY/SerDes</li> <li>• Intel® 82574L PCI Express single-port GbE controller</li> <li>• Intel® 82567LM GLCI on ICH10 single-port GbE PHY</li> </ul>
<b>Graphics</b>	Aspeed AST2050 graphics controller <ul style="list-style-type: none"> <li>• Up to 128 MB of memory</li> <li>• 1600 x 1200 @ 60 Hz, 16bpp</li> </ul>
<b>Super I/O</b>	Winbond W83627DHG

## SATA/SAS Backplane

<b>SATA/SAS BP</b>	One(1) SAS/SATA multi-lane (20) backplane w/ 5 mini SAS ports (4 lanes per port)
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## Input/Output

<b>Serial ATA</b>	4 x SATA2 ports
<b>LAN</b>	4 x RJ45 ports
<b>USB</b>	3 x USB ports (2 rear + 1 front)
<b>VGA</b>	1 x External VGA port 1 x Internal VGA port pin-header
<b>Serial Port</b>	1 x External DB-9 serial port 1 x Internal DB-9 serial port pin-header

## Power Supply

<b>Power Supply</b>	450W 1+1 redundant power supply unit
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## System Cooling

<b>System Cooling</b>	<ul style="list-style-type: none"> <li>• Five(5) x 40mmx28mm, 16.5K rpm fans</li> <li>• One(1) x 40mmx48mm, 17.5K in / 11.7K out rpm fan</li> </ul>
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## System Management

<b>System Management</b>	<ul style="list-style-type: none"> <li>• IPMI 2.0 compliance</li> <li>• KVM over IP</li> <li>• Media re-direction</li> <li>• CPU temperature (PCEI)</li> <li>• System temperature</li> <li>• Fan speed detection</li> <li>• Smart fan speed control</li> <li>• System ID / System fail indicator</li> <li>• SMASH support</li> <li>• Remote Power ON/OFF/Reset</li> </ul>
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## Operating Environment

<b>Environmental Specifications</b>	<ul style="list-style-type: none"> <li>• Operating Temperature: 0 ~ 40°C</li> <li>• Operating Altitude Condition: 0 ~ 10K feet</li> <li>• Storage Temperature: -20 ~ 60 °C</li> <li>• System Relative Humidity: 5% to 95% (38°C) non-condensing</li> </ul>
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## Ordering Information

Part Numbers	Descriptions
<b>PSG-SB-1URCTDP0310</b>	1U 20 Bay Castor Storage Server Barebone
<b>Riser Card Options</b>	
<b>PSG-RC-CTOB-10-110</b>	Castor 1U on board PCIe x8 to 1 PCIe x8 Riser Card
<b>PSG-RC-CT1U-40-110</b>	Castor 1U gold finger 2PCIe x16 to PCIe ext. 1 x8+1 x4 & int. 2 x8 Riser, L-15"