

# Processor Blade SBI-7228R-T2F2



## Key Features

**Two nodes in a Processor Blade. Each node supports the following:**

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4<sup>†</sup> / v3 family; QPI up to 9.6GT/s
2. Intel® C612 Express chipset
3. Up to 512GB reg. ECC LRDIMM
4. Intel® i350 Dual port Gigabit Ethernet
5. 2x 2.5" Hot-Plug SATA3 Drive Trays
6. Integrated Aspeed AST 2400 Graphics
7. Integrated IPMI2.0 w/ remote KVM and virtual media
8. Dual-port FDR InfiniBand onboard

- [▶ Drivers & Utilities](#) ▶ [BIOS / IPMI](#) ▶ [Manuals](#) ▶ [Tested Memory](#) ▶ [Tested HDD](#)  
[▶ OS Certification Matrix](#) ▶ [Download Driver CD](#)

## Specifications

### Product SKUs

- SBI-7228R-T2F2** ■ Processor Blade SBI-7228R-T2F2 (Black)

### Motherboard

**Super B10DRT-IBF**

### Processor/Cache

- CPU** ■ Intel® Xeon® processor E5-2600 v4<sup>†</sup> / v3 family  
 ■ Dual Socket R3 (LGA 2011)

- Cores / Cache** ■ Up to **22 Cores**<sup>†</sup> / Up to **55MB**<sup>†</sup> Cache

- System Bus** ■ QPI up to 9.6 GT/s

**Note** <sup>†</sup> BIOS version 2.0 or above is required

### System Memory

- Memory Capacity** ■ 8x 288-pin DDR4 DIMM slots per Node  
 ■ Up to 512GB ECC RDIMM or LRDIMM

- Memory Type** ■ **2400**<sup>†</sup>/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

### Dimensions

- Height** ■ 11.32" (288 mm)

- Width** ■ 1.67" (42.4 mm)

- Depth** ■ 20.5" (520.7mm)

- Weight** ■ 17 lbs (7.71 kg)

- Available Colors** ■ Black

### Front Panel

- Buttons** ■ Power On/Off button  
 ■ KVM button

- LEDs** ■ Power LED  
 ■ UID / KVM LED  
 ■ Network Activity LED  
 ■ Fault LED

- Connector** ■ SUV (Serial/USB/Video) & KVM Connector

### Drive Bays

- Hot-swap** ■ 4x 2.5" Hot-swap SATA drive bays, HDD/SSD (2 per node)

### Input / Output

- DOM** ■ 1x SuperDOM (Disk on Module) port

<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB</li> <li>LRDIMM: 128GB, 64GB, 32GB</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.2 V</li> </ul>
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> </ul>
<b>On-Board Devices (per Node)</b>	
<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C612 Express chipset</li> </ul>
<b>Network Onboard</b>	<ul style="list-style-type: none"> <li>Dual-port FDR InfiniBand onboard</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>SATA3 (6Gbps); RAID 0, 1</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface (IPMI) v.2.0 <b>via Chassis Management Module (CMM)</b></li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® I350 Dual port Gigabit Ethernet</li> <li><b>Intel® I/OAT 3</b> support for fast, scaleable, and reliable networking</li> <li><b>VMDq</b> support for better performance of virtualization</li> </ul>
<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI® BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>PCI 2.2</li> <li>ACPI up to 3.0</li> <li>USB Keyboard support</li> </ul>

<b>TPM</b>	<ul style="list-style-type: none"> <li>1x TPM 1.2 20-pin Header</li> </ul>
<b>KVM</b>	<ul style="list-style-type: none"> <li>1x Front Connector for Supermicro KVM Card</li> </ul>
<b>Operating Environment / Compliance</b>	
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10° to 35°C (50° to 95°F)</li> <li>Non-operating Temperature: -40° to 70°C (-40° to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5 to 95% (non-condensing)</li> </ul>
<b>Electromagnetic Compatibility (EMC)</b>	
<b>United States / Canada</b>	<ul style="list-style-type: none"> <li>FCC- Emissions (US) Verification</li> </ul>
<b>Europe</b>	<ul style="list-style-type: none"> <li>EN55022 - Emissions</li> <li>EN55024 - Immunity</li> <li>EN61000-3-2 - Harmonics</li> <li>EN61000-3-3 - Voltage Flicker</li> <li>CE - EMC Directive 89/336/EEC</li> </ul>
<b>Safety Compliance</b>	
<b>United States / Canada</b>	<ul style="list-style-type: none"> <li>UL60950-1 - CSA/CUL 60950-1</li> </ul>
<b>Europe</b>	<ul style="list-style-type: none"> <li>EN60950-1, CE - Low Voltage Directive 73/23/EEE</li> </ul>
<b>Germany</b>	<ul style="list-style-type: none"> <li>TUV</li> </ul>

Parts List - (Items Included)			
	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-B10DRT-IBF2-O-P	1	Super B10DRT-IBF2 Motherboard
	CSE-720M-240B	1	Black Front Blade Chassis (B = Black)
<b>Hard Drive Backplane</b>	BPN-SB9-SATA	1	SATA Hard Drive Backplane
<b>Hard Drive Tray</b>	MCP-220-00079-0B	4	Black 2.5" SATA HDD Tray
<b>Front Panel Control</b>	MCP-280-KVMT	2	Power & KVM buttons, LED, KVM connector
<b>Air Shroud</b>	MCP-310-00067-0N	4	Blade 4-piece Air Shroud Set of B9DRT (included in CSE-720M-240B)

Optional Parts List			
	Part Number	Qty	Description
<b>TPM security module (optional, not included)</b>	<a href="#">AOM-TPM-9665V</a>	-	TPM module with Infineon 9665, RoHS/REACH,PBF
<b>SuperDOM</b>	-	-	Supermicro SATA DOM Solutions [ <a href="#">Details</a> ]
<b>Heatsink / Retention</b>	SNK-P0047PSC	1	Heatsinks for front right CPUs
	SNK-P0047PSM	1	Heatsinks for front left CPUs
	SNK-P0047PS	2	Heatsinks for rear CPUs
<b>Heatsink / Retention (for CPU 145W TDP solution*)</b>	SNK-P0047PSC	2	Heatsinks for front CPUs
	SNK-P0057PS	2	Heatsinks for rear CPUs
<b>Software</b>	SFT-OOB-LIC	2	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	2	DataCenter Management Package (per node license)

\* E5-2697 v3/E5-2699 v3 at 25°C