

Processor Blade SBI-7228R-T2F



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†/ 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. FDR InfiniBand onboard

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Specifications

Product SKUs

- SBI-7228R-T2F
 - Processor Blade SBI-7228R-T2F (Black)

Motherboard

Super B10DRT-IBF

Processor/Cache

- CPU
 - Intel® Xeon® processor E5-2600 v4†/ v3 family
 - Dual Socket R3 (LGA 2011)
- Cores / Cache
 - Up to 22 Cores† / Up to 55MB† Cache
- System Bus
 - QPI up to 9.6 GT/s
- Note
 - † 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†/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

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

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

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-B10DRT-IBF -O-P	1	Super B10DRT-IBF Motherboard
	CSE-720M-240B	1	Black Front Blade Chassis (B = Black)
Hard Drive Backplane	BPN-SB9-SATA	1	SATA Hard Drive Backplane
Hard Drive Tray	MCP-220-00079-0B	4	Black 2.5" SATA HDD Tray
Front Panel Control	MCP-280-KVMT	2	Power & KVM buttons, LED, KVM connector
Air Shroud	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
TPM security module (optional, not included)	AOM-TPM-9665V	-	TPM module with Infineon 9665, RoHS/REACH,PBF
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]
Heatsink / Retention	SNK-P0047PSC	1	Heatsinks for front right CPUs
	SNK-P0047PSM	1	Heatsinks for front left CPUs
	SNK-P0047PS	2	Heatsinks for rear CPUs
Heatsink / Retention (for CPU 145W TDP solution*)	SNK-P0047PSC	2	Heatsinks for front CPUs
	SNK-P0057PS	2	Heatsinks for rear CPUs
Software	SFT-OOB-LIC	2	OOB Management Package (per node license)
Software	SFT-DCMS-Single	2	DataCenter Management Package (per node license)

* E5-2697 v3/E5-2699 v3 at 25°C