Processor Blade SBI-7127R-SH

Integrated Board

Super B9DRP

▸ **Drivers & Utilities** ▸ **BIOS / IPMI** ▸ **Manuals** ▸ **Tested Memory**
▸ **OS Certification Matrix** ▸ **Download Driver CD**

Key Features

1. 120 CPUs per 42U Rack
2. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
3. Intel® C602 Chipset
4. Up to 512GB RDIMM or 128GB UDIMM; 16 DIMM slots
5. Intel® i350 Dual port Gigabit Ethernet
6. Mezzanine slot supports QDR (40G) or 10G Ethernet
7. IPMI 2.0, KVM over IP, Virtual Media
8. 2x 2.5" Hot-swap HDD Bay
9. Integrated Matrox G200 Graphics

Specifications

Product SKUs

SBI-7127R-SH	Processor Blade SBI-7127R-SH (Black)

Motherboard

Super B9DRP

Processor/Cache

CPU	Dual Socket R (LGA 2011) Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
Note	† BIOS version 3.0 or above is required
Cache	Up to 30MB
System Bus	QPI up to 8 GT/s

System Memory

Memory Capacity	16x 240-pin DDR3 DIMM slots Supports up to 512GB DDR3 ECC Registered memory (RDIMM) Supports up to 128GB DDR3 ECC Unbuffered memory (UDIMM)
Memory Type	1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	1.5 V and 1.35 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory) Supports Intel® x4 and x8 Single Device Data Correction (SDDC)

On-Board Devices

Chipset	Intel® C602 chipset
InfiniBand Support	4x QDR (40Gbps) InfiniBand or 10GbE mezzanine HCA (Optional)
SATA	Intel C602 SATA 3.0Gbps Controller RAID 0, 1 support (Windows) RAID 0, 1 support (Linux)
SAS	SAS via Broadcom 2308
IPMI	Support for Intelligent Platform Management Interface (IPMI) v.2.0 **via Chassis Management Module (CMM)**
Network Controllers	Intel® I350 Dual port Gigabit Ethernet **Intel® I/OAT 3** support for fast, scaleable, and reliable networking **VMDq** support for better performance of virtualization
Super I/O	Nuvoton W83527
SATA DOM	USB Flash Drive support

Dimensions

Height	11.32" (288 mm)
Width	1.67" (42.4 mm)
Depth	18.9" (480mm)
Weight	8.6 lbs (3.9 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

Expansion Slots

PCI-Express	1 (x16) PCI-E 3.0 (FH/HL)

Drive Bays

Hot-swap	2x 2.5" SAS/SATA Hot-swap drive bays

Input / Output

KVM	1 Front Connector for Supermicro KVM Card

Operating Environment / Compliance

Environmental Spec.	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	FCC- Emissions (US) Verification
Europe	EN55022 - Emissions EN55024 - Immunity EN61000-3-2 - Harmonics EN61000-3-3 - Voltage Flicker CE - EMC Directive 89/336/EEC

Safety Compliance

United States / Canada	UL60950-1 - CSA/CUL 60950-1
Europe	EN60950-1, CE - Low Voltage Directive 73/23/EEE

System BIOS	
BIOS Type	■ 64Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	■ Plug and Play (PnP) ■ PCI 2.2 ■ ACPI up to 3.0 ■ USB Keyboard support

Germany	■ TUV

Thermal Limitation	
Note	■ SuperBlade full enclosure with four 1620W power supplies will have thermal limitation of 30°C ambient temperature.

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-B9DRP-O-P	1	10-Blade, Xeon E5-2600, 1 PCI-E 3.0 (FH/HL) & 2x 2.5" HDDs
	CSE-710M-22HB	1	10-Black Front Blade with two 2.5" HDD and one FH/HL PCI-E
Front Panel Control	MCP-280-KVM1	1	Power & KVM buttons, LED, KVM connector
Riser Card	RSC-RBL-E16	1	Riser Card - RSC-RBL-E16
Add-on Card	AOM-S2308-L8I-O-P	1	Riser Card - AOM-S2308-L8I-O-P
Air Shroud	MCP-310-00068-0N	1	2-Piece Air shroud Set for B9DRP used in CSE-710M-22HB

Optional Parts List

	Part Number	Qty	Description
Heatsink / Retention	SNK-P0047PS	2	Heatsink for Intel CPU
Networking	AOC-XEH-iN2	1	Dual Port 10G Ethernet AOC for Blade
	AOC-IBH-X3QD	1	InfiniBand Dual Port FDR AOC
	AOC-IBH-X3QS	1	InfiniBand Single Port FDR AOC
	AOC-IBH-XDD	1	InfiniBand Dual-Port 4x DDR 20Gbps Mezzanine HCA (Mellanox ConnectX chip)
	AOC-IBH-XQD	1	InfiniBand Dual-Port 4x QDR 40Gbps Mezzanine HCA (Mellanox ConnectX-2 chip)
	AOC-IBH-XQS	1	InfiniBand Single port 4x QDR 40Gbps Mezzanine HCA (Mellanox ConnectX chip)
	AOC-IBH-XDS	1	InfiniBand Single port 4x DDR 20Gbps Mezzanine HCA (Mellanox ConnectX chip)