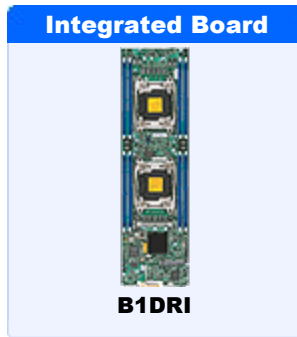


MicroBlade MBI-6128R-T2X



Key Features

- **196 Xeon DP nodes (7056 cores) per 42U Rack**
- **95% Cable reduction**

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 family; QPI up to 9.6GT/s
2. 8x 288-pin DDR4 DIMM sockets up to 256GB VLP RDIMM
3. 2x 2.5" 6Gb/s SATA3 HDD/SSD
4. 1x SATA DOM on board
5. 2x 10Gb/s network connectivity

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

Specifications

Product SKUs	
MicroBlade	▪ MBI-6128R-T2X
Motherboard	
	▪ B1DRI
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Intel® Xeon® processor E5-2600 v4[†]/ v3 family (up to 120W TDP) ▪ 105W TDP CPU or greater required ▪ 2000W PSU ▪ Dual Socket R3 (LGA 2011)
Cores / Cache	▪ Up to 18 Cores / Up to 45MB Cache
System Bus	▪ QPI up to 9.6 GT/s
Note	[†] BIOS version 2.0 or above is required
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ 8x 288-pin DDR4 DIMM slots ▪ Up to 256GB VLP ECC RDIMM
Memory Type	▪ 2400/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

Dimensions	
Height	▪ 1.2" (30.48mm)
Width	▪ 4.94" (125.48mm)
Depth	▪ 23.2" (589.28mm)
Weight	<ul style="list-style-type: none"> ▪ Gross Weight: 5.7 lbs (2.59 kg) ▪ Net Weight: 3.4 lbs (1.54 kg)
Available Colors	▪ Silver Grey
Front Panel	
LEDs	<ul style="list-style-type: none"> ▪ Power LED ▪ UID / KVM LED ▪ Network Activity LED ▪ Fault LED
Drive Bays	
Internal	▪ 2x 2.5" 6Gb/s SATA3 HDD/SSD and 1x SATA DOM per node
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)

DIMM Sizes	<ul style="list-style-type: none"> VLP RDIMM: 32GB, 16GB, 8GB, 4GB
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	
Chipset	<ul style="list-style-type: none"> Intel® C612 Express chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps); RAID 0, 1
Input / Output	
DOM	<ul style="list-style-type: none"> 1x SuperDOM (Disk on Module) port
LAN	<ul style="list-style-type: none"> 2x 10GbE ports (via AOC-XEH-I2M)
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) DMI 2.3 ACPI 5.0 USB Keyboard support SMBIOS 2.7.1 UEFI

<ul style="list-style-type: none"> 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	MBD-B1DR1	1	MicroBlade with Dual Intel Xeon E5-2600 v3
MicroBlade Sled	MCP-680-31402-0N	1	M628 MicroBlade DP Sled (complete assembly)
Add-on Card	AOC-XEH-I2M-O-P	1	AOC with dual ports, 10GbE Ethernet Controller
Add-on Module	AOM-BPN-MS28D-O-P	1	The HDD Backplane and controller for B1DR1

Optional Parts List

	Part Number	Qty	Description
Heatsink / Retention	SNK-P0047PSRM	1	Heatsink for front CPUs
Heatsink / Retention	SNK-P0047PSR	1	Heatsink for rear CPUs
SATA DOM	MEM-IDSAHM3-016G MEM-IDSAHM3-032G MEM-IDSAHM3-064G MEM-IDSAHM1-128G	1	SATA3 DOM SH 3ME3 V2 16GB MLC w/ Pin8 VCC Horizontal SATA3 DOM SH 3ME3 V2 32GB MLC w/ Pin8 VCC Horizontal SATA3 DOM SH 3ME3 V2 64GB MLC w/ Pin8 VCC Horizontal SATA3 DOM SH 3ME3 V2 128GB MLC w/ Pin8 VCC Horizontal
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)