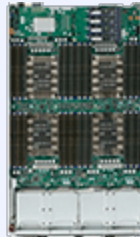


4-Socket Blade SBI-8149P-T8N



Integrated Board



Super B11QPi

Key Features

1. 200 CPUs per 42U Rack
2. Quad socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
3. Intel® C622 chipset
4. 8 Hot-plug 2.5" NVMe (7mm) / 4 SATA3/NVMe drive bays (15mm)
5. 48 DDR4 LRDIMM/RDIMM slots
6. Dual 10G onboard and/or 100G EDR InfiniBand/ Intel Omni-Path (Mezzanine card)
7. IPMI 2.0, KVM over IP, Virtual Media over LAN
8. Graphics: Aspeed AST2500 BMC

[▶ Drivers & Utilities](#)
[▶ BIOS / IPMI](#)
[▶ Manuals](#)
[▶ Tested Memory](#)
[▶ Tested HDD](#)
[▶ Tested NVMe](#)
[▶ OS Certification Matrix](#)
[▶ Tested M.2 List](#)

Specifications

Product SKUs	
SBI-8149P-T8N	▪ Processor Blade SBI-8149P-T8N (Black)
Motherboard	
Super B11QPi	
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Quad Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s ▪ Support CPU TDP up to 165W
Cores	▪ Up to 28 Cores with Intel® HT Technology
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ 48 DIMM slots ▪ Up to 6TB Registered ECC LRDIMM/RDIMM
Memory Type	<ul style="list-style-type: none"> ▪ 2666/2400/2133MHz ECC DDR4 ▪ Support Apache Pass
On-Board Devices	
Chipset	▪ Intel® C622 chipset

Dimensions	
Height	▪ 13"
Width	▪ 1.75"
Depth	▪ 23.5"
Weight	▪ 24.2 lbs (11.0 kg)
Available Colors	▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ KVM button
LEDs	<ul style="list-style-type: none"> ▪ Power LED ▪ UID / KVM LED ▪ Network Activity LED ▪ Fault LED
Connector	▪ SUV (Serial/USB/Video) & KVM Connector
Drive Bays	
Hot-swap	▪ 8 Hot-Plug 2.5" NVMe (7mm) / 4 SATA3/NVMe drive bays (15mm)
M.2	▪ 2 PCI-E x4 connector for 2 M.2
Input / Output	

Network Controllers	<ul style="list-style-type: none"> Dual 10G onboard and High speed network options via 25G/50G/100G/EDR Mezzanine card
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface (IPMI) v.2.0 via Chassis Management Module (CMM)
Graphics	<ul style="list-style-type: none"> Aspeed AST2500 BMC
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"> 1 TPM Header
KVM	<ul style="list-style-type: none"> 1 Front Connector for SMCI KVM Card
Operating Environment	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-B11QPi -O-P	1	Super B11QPi Motherboard
	MCP-680-81001-0N	1	8U 10 SuperBlade Processor Blade chassis
Add-on Card / Module	AOM-8U-KVM-P	1	[NR]Front Control Board with KVM Connector for B11QPi,RoHS
Backplane	BPN-NVME3-SB810N	1	NVMe backplane for 8U 10-node SB810 server, support 4x 2.5-inch SSD per server node
Cable 1	CBL-SAST-0829-1T	3	OcuLink v 1.0,INT,PCIe NVMe SSD, 20CM, Taped, 34AWG,RoHS
Cable 2	CBL-SAST-0973-1T	5	OcuLink v 1.0,INT,PCIe NVMe SSD, 25CM, Taped, 34AWG, RoHS
Hard Drive Tray	MCP-220-00145-0B	2	Black 2.5" NVMe Hard Drive Tray, orange button
Air Shroud	MCP-310-41001-0N	1	Air shroud set for 4U 10-Blade

Optional Parts List

	Part Number	Qty	Description
TPM security module (optional, not included)	AOM-TPM-9670V	1	TPM module (Vertical) TPM 2.0
	AOM-TPM-9671V		TPM module (Vertical) TPM 1.2.
Heatsink / Retention	SNK-P0067PS	2	Heatsink for Intel CPU (up to 165W)
Heatsink / Retention	SNK-P0067PSMB	2	Heatsink for Intel CPU (up to 165W)
AOC	AOC-VROCPREMOD	-	Intel VROC Premium, RAID 0, 1, 5, 10
	AOC-VROCSTNMOD	-	Intel VROC HW key (RSTe) standard upgrade module
	AOC-VROCINTMOD	-	Intel VROC, RAID 0, 1, 5, 10 (Intel SSD Only)
Networking	AOC-IBH-X4ES-O	1	Mezzanine card, InfiniBand EDR Single Port based on ConnectX-4
	AOC-OPH-WFR-O		Omni-path mezzanine card, 100Gbps link speed
Battery Backup Kit	BTR-TFM8G-LSICVM02	1	Broadcom Supercap w/ 8GB CV + 24" cable (whole kit)
	MCP-240-00127-0N	1	Broadcom Supercap bracket include screw, same size as 2.5" HDD
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)
Add-on Card / Module	AOM-B-4M	1	4 x M.2 mezz card