

Twin Blade SBI-4129P-C2N



Integrated Board



Super B11DPT-P

Key Features

1. 200 CPUs per 42U Rack
2. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
3. Intel® C622 chipset
4. 2 Hot-plug 2.5" NVMe/SAS3/SATA3 drive bays; 4 PCI-E x4 M.2 (via Mezzanine Card)
5. 16 DDR4 LRDIMM/RDIMM slots
6. Dual 10G onboard
7. IPMI 2.0, KVM over IP, Virtual Media over LAN
8. Graphics: Aspeed AST2500 BMC

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Specifications

Product SKUs	
SBI-4129P-C2N	▪ Processor Blade SBI-4129P-C2N (Black)
Motherboard	
Super B11DPT-P	
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Dual Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s ▪ Support CPU TDP 70-205W
Cores	▪ Up to 28 Cores with Intel® HT Technology
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ▪ 16 DIMM slots ▪ Up to 2TB 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	▪ 6.5"
Width	▪ 1.75"
Depth	▪ 23.5"
Weight	▪ 9.5 lbs (4.3 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	▪ 2 Hot-Plug 2.5" NVMe/SAS3/SATA3 drive bays
M.2	▪ 1 PCI-E x4 M.2 and 4 PCI-E x4 M.2 via Mezzanine card

SAS	<ul style="list-style-type: none"> ▪ Broadcom 3108 SAS3 (12Gbps) controller; HW RAID 0, 1, 5, 10 support; 2G Cache ▪ SAS3 mezz card
Network Controllers	<ul style="list-style-type: none"> ▪ Dual 10G onboard
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

Input / Output	
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-B11DPT-P-O-P	1	Super B11DPT-P Motherboard
	MCP-680-41001-0N	1	4U 10 SuperBlade Processor Blade chassis
Add-on Card / Module	AOM-B3108-H8-B11-P	1	SAS3108 mezz card for blade B11DPT
Add-on Card / Module	AOM-SB410-01-P	1	Front Control Board with KVM connector for B11DPT, 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	1	Heatsink for Intel CPU (up to 165W TDP)
Heatsink / Retention	SNK-P0067PSMB	1	Heatsink for Intel CPU (up to 165W TDP)
Heatsink / Retention	SNK-P0067PSW	1	Wide Heatsink for Intel CPU (up to 205W TDP)
Heatsink / Retention	SNK-P0067PSWM	1	Wide Heatsink for Intel CPU (up to 205W TDP)
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
	AOC-B25G-X4D		2-port 25GbE Mezzanine Card (Mellanox ConnectX-4 Lx EN)
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