

# Twin Blade SBI-4129P-T3N



## 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 + 1 SATA3 drive bays or 3 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

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

## Specifications

### Product SKUs

SBI-4129P-T3N ■ Processor Blade SBI-4129P-T3N (Black)

### Motherboard

Super B11DPT-P

### Processor/Cache

**CPU** ■ 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** ■ 16 DIMM slots  
 ■ Up to 2TB Registered ECC LRDIMM/RDIMM  
**Memory Type** ■ 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** ■ 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** ■ 2 Hot-Plug 2.5" NVMe + 1 SATA3 drive bays  
**M.2** ■ 1 PCI-E x4 M.2 and 4 PCI-E x4 M.2 via Mezzanine card

SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) via Intel C622 RAID 0, 1, 5</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Dual 10G onboard</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface (IPMI) v.2.0 via Chassis Management Module (CMM)</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>Aspeed AST2500 BMC</li> </ul>
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI® BIOS</li> </ul>
BIOS Features	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>PCI 2.2</li> <li>ACPI up to 3.0</li> <li>USB Keyboard support</li> </ul>

Input / Output	<ul style="list-style-type: none"> <li>1 TPM Header</li> </ul>
KVM	<ul style="list-style-type: none"> <li>1 Front Connector for SMCI KVM Card</li> </ul>
<b>Operating Environment</b>	
RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)</li> <li>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

#### 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-SB1-SATA31-P	1	Single SATA3 hard drive supporting expansion card for B11DPT
Add-on Card / Module	AOM-SB410-01-P	1	Front Control Board with KVM connector for B11DPT, RoHS
Cable 1	CBL-0488L	1	SATA,INT,ROUND,ST-RA,55CM,30AWG
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)
<u>Networking</u>	AOC-IBH-X4ES-O	1	Mezzanine card, InfiniBand EDR Single Port based on ConnectX-4
	AOC-OPH-WFR		Mezzanine Card for OPA
	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