

OSS Gen4 4U Value 16-Slot PCIe Expansion

This 16 slot rackmount expansion platform provides extreme PCIe Gen4 speed expansion at an exceptional value. The 4U supports 2 PCIe 4.0 x16 host connections and 16 PCIe 4.0 x8 expansion slots to aggregate any set of PCIe add-in cards (AICs) to Gen 4 equipped servers and workstations. The system supports 16 full length PCIe AICs such as NVMe flash, FPGAs, single-slot GPUs and I/O. Two fan choices allow for high-power AIC cooling up to 100W per AIC or a set-and-forget manual speed control when lower power AICs and quiet operation are required. Two 2000W power supplies provide redundant hot-swap system power and the choice of copper or fiber optic cables allows for remote mounting up to 100m away from the host system.

Features

- 4U rackmount design
- 16 PCIe 4.0 x8 expansion slots
- Two PCIe 4.0 x16 host connections
- Two PCIe copper or fiber cable sets
- Fixed or variable speed fan options
- Two 2000W load-sharing power supplies
- Optional AUX power connectors for high power AICs

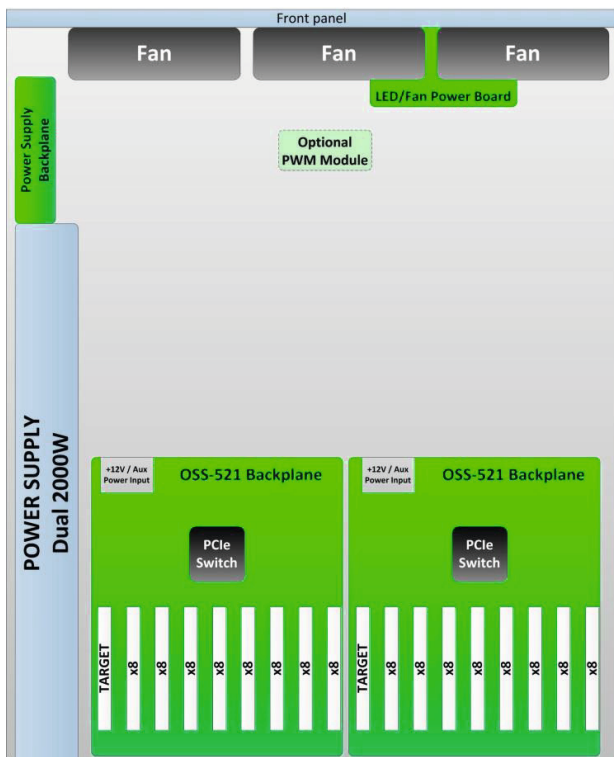


Specifications

Enclosure	4U – 17.2" (19" with rack ears) W x 18.5"D x 7"H (43.7 x 47 x 17.7 cm) Supports up to 16 full-height, full-length PCIe slots plus 2 cable interfaces in 16-2 configuration Supports extended height cards and top GPU power cables Black medium texture liquid paint finish with optional OEM logo area Power and Fan status tri-color LED panel Tool-less rack slides included
PCIe Backplanes	Two OSS-PCIe4-BP-521 PCIe3 8-slot expansion backplanes. The 16-slot integrated system includes: <ul style="list-style-type: none"> • Two HIB616-x16 PCIe cable target interfaces (one per backplane) • Sixteen (16) PCIe4 x8 single-width slots (x16 mechanical)
Host/Target Interface	The system includes two PCIe 4.0 x16 host/target interfaces for connecting the accelerator to just about any server or workstation. HIB616-x16 Host/Target Interfaces: <ul style="list-style-type: none"> • Half-height, half length, single slot x16 PCIe add-in card form factor • PCIe4 x16 card edge connector (256 Gbps) • Quad SSF-8644 cable connectors on the bracket • Broadcom PEX88032 switch includes: <ul style="list-style-type: none"> ○ Fast-cut through, 150ns latency ○ Non-blocking switch fabric ○ 16 GT/s 32-lane PCI Express Gen 4 Switch ○ SSC isolation ○ DMA controller • 60W max

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Cables	<p>Each host/target interface kit requires an associated cable chosen from the following CMI (default) or Mini-SAS HD x4 copper cables:</p> <ul style="list-style-type: none"> • 1m, 2m, 3m <p>Mini-SAS HD x4 fiber cables:</p> <ul style="list-style-type: none"> • 5m, 10m, 15m 25m, 50m, 75m, 100m <p>Cables needed for PCIe links:</p> <ul style="list-style-type: none"> • x4 (1 cable) • x8 (2 cables) • x16 (4 cables)
Cooling	<p>Three 120mm x 38mm fans mounted to the front bezel of the chassis Two standard fan options available:</p> <p>High-Capacity Fans:</p> <ul style="list-style-type: none"> • 250CFM fixed-speed fans • Tachometer monitoring via front panel LED <p>Variable Speed PWM Fans:</p> <ul style="list-style-type: none"> • 250CFM fixed-speed PWM fans • Set and forget manual PWM speed control module internal to the enclosure
Power	<p>Dual load-sharing power supplies pluggable from the rear of the chassis:</p> <ul style="list-style-type: none"> • Two 2000W 80Plus Titanium efficiency power supplies with dual IEC C14 AC input connectors • Total output power: <ul style="list-style-type: none"> ○ 1000W: 100-127Vac / 12.5-9.5A / 50-60 Hz ○ 1800W: 200-220Vac / 10-9.5A / 50-60 Hz ○ 1980W: 220-230Vac / 10-9.8A / 50-60 Hz ○ 2000W: 230-240Vac / 10-9.8A / 50-60 Hz • Power supplies can provide up to 4000W non-redundant total power to the system • Supplies are redundant, hot-swap when system power requirements are under 2000W total <p>Aux Power:</p> <ul style="list-style-type: none"> • An array of 8 EPS12V AUX power connectors available for high-power cards
Operating Environment	0-35°C 10-90% relative humidity 0-10,000 feet above sea level
Storage Environment	-40 to 85°C 5-96% relative humidity 0-50,000 feet above sea level
Agency Compliance	<p>Agency Certifications (testing pending):</p> <p>FCC Class A CE Safety & Emissions UL, cUL RoHS2</p>



Rear View

