

# OSS Gen4 4U Value 8-Slot PCIe Expansion

This 8 slot rackmount expansion platform provides extreme PCIe Gen4 speed expansion at an exceptional value. The 4U supports 1 PCIe 4.0 x16 host connection and 8 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 8 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.

PN: OSS-PCIe4-4UV-8-1

## Features

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

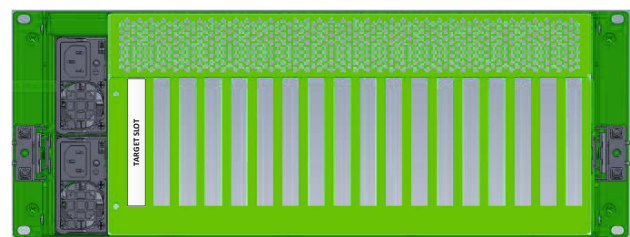
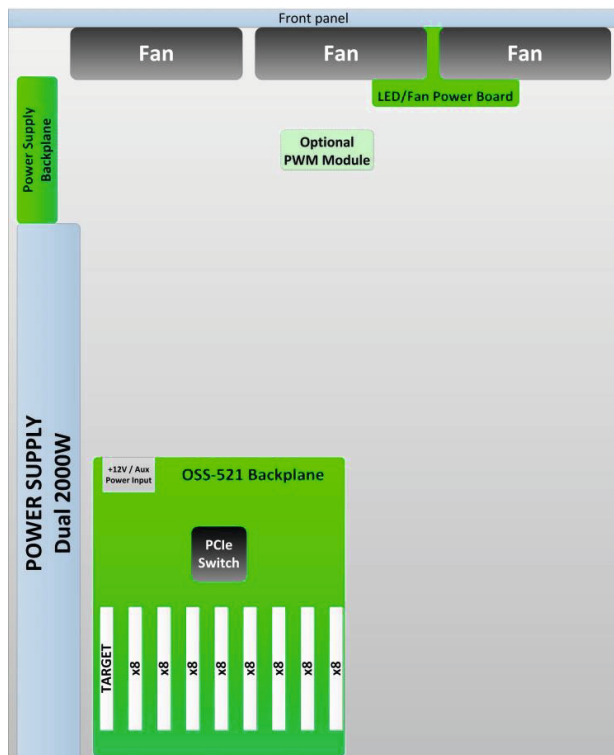


## Specifications

<b>Enclosure</b>	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 8 full-height, full-length PCIe slots plus 1 cable interface in 8-1 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
<b>PCIe Backplanes</b>	One OSS-PCIe4-BP-521 PCIe3 8-slot expansion backplane. The 8-slot integrated system includes: <ul style="list-style-type: none"> <li>• One HIB616-x16 PCIe cable target interface</li> <li>• Eight (8) PCIe4 x8 single-width slots (x16 mechanical)</li> </ul>
<b>Host/Target Interface</b>	The system includes one PCIe 4.0 x16 host/target interface for connecting the accelerator to just about any server or workstation. <b>HIB616-x16 Host/Target Interface:</b> <ul style="list-style-type: none"> <li>• Half-height, half length, single slot x16 PCIe add-in card form factor</li> <li>• PCIe4 x16 card edge connector (256 Gbps)</li> <li>• Quad SSF-8644 cable connectors on the bracket</li> <li>• Broadcom PEX88032 switch includes:                         <ul style="list-style-type: none"> <li>○ Fast-cut through, 150ns latency</li> <li>○ Non-blocking switch fabric</li> <li>○ 16 GT/s 32-lane PCI Express Gen 4 Switch</li> <li>○ SSC isolation</li> <li>○ DMA controller</li> </ul> </li> <li>• 60W max</li> </ul>

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



Rear View

