

## 4U Value Expansion System

This flexible 18-slot rackmount expansion platform provides thousands of expansion possibilities at a value price. The 4UV supports from 1 to 8 PCIe host connections using the broadest line of PCIe host interface boards and PCIe expansion backplanes in the industry. The 4UV supports dual 9-slot backplanes or any combination of backplanes from the OSS Cube product line up to a total of 18 slots. Two fan choices allow for high-capacity GPU systems or manual speed control PWM capability. Flexible power subsystem options range from a single 850W high efficiency power supply to split-power or redundant power configurations up to 4000W.

PN: OSS-PCIe-4UV

### Features

- 4U rackmount design
- Highly configurable 2-18 slots
- Supports from 1 – 8 backplanes
- PCIe 2.0 and 3.0 host links
- Tach and PWM fan options
- Single or redundant power options



## Specifications

<b>Enclosure</b>	19"W x 18.5"D x 7"H (4U) Supports up to 18 total full-height, full-length PCIe slots 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 Toolless rack slides included
<b>PCIe Backplanes</b>	Supports one or more of the following backplanes up to 18 total slots (* slots are all x16 physical when noted): <b>HIB-T Target Slot Backplanes:</b> <ul style="list-style-type: none"> <li>• OSS-PCIe-BP-412: PCIe3 2-slot backplane with 1 HIB-T x16 target slot and 1 PCIe3 x16 (3-slots)*</li> <li>• OSS-PCIe-BP-427: PCIe3 2-slot backplane with 1 HIB-T x16 target slot and 1 PCIe3 x16 (2-slots)*</li> <li>• OSS-PCIe-BP-440: PCIe3 2-slot short backplane with 1 HIB-T x8 target slot and 1 PCIe3 x8 (2-slots)</li> <li>• OSS-PCIe-BP-419: PCIe3 3-slot backplane with 1 HIB-T x16 target slot and 2 PCIe3 x8 (3-slots)*</li> <li>• OSS-PCIe-BP-436: PCIe3 4-slot backplane with 1 HIB-T x16 target slot, 1 PCIe3 x8 and 2 PCIe x4 slots (4-slots)*</li> <li>• OSS-PCIe-BP-420: PCIe2 6-slot backplane with 1 HIB-T x16 target slot, 5 PCIe2 x4 slots (6-slots)*</li> <li>• OSS-PCIe-BP-416: PCIe2 9-slot backplane with 1 HIB-T x16 target slot, 8 PCIe2 x4 slots (9-slots)*</li> <li>• OSS-PCIe-BP-452: PCIe3 9-slot backplane with 1 HIB-T x16 target slot, 8 PCIe3 x8 slots (9-slots)*</li> <li>• OSS-PCIe-BP-457: PCIe3 5-slot backplane with 1 HIB-T x16 target slot, 3 PCIe3 x16 dual-width slots and 2 PCIe3 x16 single-width slots (9-slots)*</li> </ul>

<b>Host/Target Interfaces (continued)</b>	Each backplane in the enclosure supports a host/target interface chosen from the following: <b>HIB-T Target Kits:</b> <ul style="list-style-type: none"> <li>• PCIe2 x4 host to x4 HIB-T target slot (20 Gbps)</li> <li>• PCIe2 x8 host to x8 HIB-T target slot (40 Gbps)</li> <li>• PCIe2 x16 host to x16 HIB-T target slot (80 Gbps)</li> <li>• CPCI x4 host to x4 HIB-T target slot (10 Gbps)</li> <li>• PXIe x4 host to x4 HIB-T target slot (20 Gbps)</li> <li>• XMC x8 host to x8 HIB-T target slot (40 Gbps)</li> <li>• PCIe3 x4 host to x4 HIB-T target slot (32 Gbps)</li> <li>• PCIe3 x8 dual host to x8 HIB-T target slot (64 Gbps) – dual host adapter requires a x16 slot in the host</li> <li>• PCIe3 x16 host to x16 HIB-T target slot (128 Gbps)</li> <li>• Thunderbolt 2 to x4 HIB-T target slot (20 Gbps)</li> <li>• Thunderbolt 3 to x4 HIB-T target slot (40 Gbps)</li> </ul>
<b>Cables</b>	Each host/target interface kit requires an associated copper or fiber cable to run each backplane chosen from the following (some cable lengths may be special order): <b>PCIe Cables:</b> <ul style="list-style-type: none"> <li>• PCIe x4 copper cables from 0.5m – 2m in length or x4 fiber cables from 1m to 200m in length</li> <li>• PCIe x8 copper cables from 0.5m – 2m in length or x8 fiber cables from 1m to 200m in length</li> <li>• PCIe x8 to x4 copper adapter cables from 0.5m – 2m in length</li> <li>• PCIe x16 copper cables from 0.5m - 2m in length or x16 fiber cables from 1m to 100m in length</li> </ul> <b>Thunderbolt Cables:</b> <ul style="list-style-type: none"> <li>• Thunderbolt2 copper cables from 0.5 to 3m in length or fiber cables from 2m to 100m in length</li> <li>• Thunderbolt3/USB-C copper cables from 0.5 to 3m in length or fiber cables TBD in length</li> </ul>
<b>Cooling</b>	Three 120mm x 38mm fans mounted to the front bezel of the chassis Two standard fan options available <b>High-Capacity Fans:</b> <ul style="list-style-type: none"> <li>• Three 180CFM fixed speed fans with tachometer monitoring via front panel LED</li> <li>• Perfect for GPU or FPGA accelerator applications up to 3000W</li> </ul> <b>Variable Speed PWM Fans:</b> <ul style="list-style-type: none"> <li>• Three 180CFM fixed speed fans with tachometer monitoring via front panel LED</li> </ul> Perfect for GPU or FPGA accelerator
<b>Power</b>	Several power supply options are available for the 20-slots worth of expansion. The supplies are mounted inside the front panel of the chassis: <b>Redundant Power Supply:</b> <ul style="list-style-type: none"> <li>• Dual redundant 850-2000W 80Plus Platinum power supply shared among all backplanes in the enclosure</li> </ul> <b>Split Power Supply:</b> <ul style="list-style-type: none"> <li>• Dual 1620W 80Plus Platinum power supply for use with 2 separate backplanes zones</li> </ul> <b>Aux Power:</b> <ul style="list-style-type: none"> <li>• Up to 8 EPS12V 8-pin 12V aux power cables available</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>	Agency Certifications (testing pending): FCC Class A CE Safety & Emissions UL, cUL RoHS2