



## 4U 20-Slot Value Line PCIe Expansion Enclosure

This flexible 20-slot rackmount expansion platform provides thousands of expansion possibilities at a value price. The 4UVL supports from 1 to 8 PCIe host connections using the broadest line of PCIe 2.0 and 3.0 host interface boards and PCIe expansion backplanes in the industry. The 4UVL supports a single 20-slot backplane or any combination of backplanes from the OSS Cube product line up to a total of 20 slots. Flexible power subsystem options range from a single value-oriented 700-1200W ATX power supply to split-power or redundant power configurations.



### Features

- 4U High rackmount design
- Highly configurable 2-20 slots
- Supports from 1 – 8 backplanes
- PCIe 2.0 and 3.0 host links
- Single or redundant power options
- Optional drive bays

## Specifications

<b>Enclosure</b>	19"W x 25.4"D x 7"H (4U) Supports up to 20 total full-height, full-length PCIe slots with optional hold-down bar Metal locking door over optional drive bays 3 high-power 120mm cooling fans Black medium texture liquid paint finish with optional OEM logo area
<b>PCIe Backplanes</b>	Supports one or more of the following backplanes up to 20 total slots (* slots are all x16 physical when noted): <b>SHB Target Slot Backplanes:</b> <ul style="list-style-type: none"> <li>• <i>OSS-PCIe-BP-2022</i>: PCIe 2.0 20-slot backplane with 1 SHB target slot, 2 PCIe2 x8 and 17 PCIe 2 x4(20-slots)*</li> <li>• <i>OSS-PCIe-BP-369</i>: PCIe 2.0 14-slot backplane with 1 SHB target slot, 7 PCIe2 x8 and 6 PCIe2 x4 (14-slots)*</li> </ul> <b>HIB-T Target Slot Backplanes:</b> <ul style="list-style-type: none"> <li>• <i>OSS-PCIe-BP-184</i>: PCIe3 2-slot backplane with 1 HIB-T x8 target slot and 1 PCIe3 x8 (3-slots)</li> <li>• <i>OSS-PCIe-BP-2019</i>: PCIe3 2-slot backplane with 1 HIB-T x16 target slot and 1 PCIe3 x16 (3-slots)*</li> <li>• <i>OSS-PCIe-BP-412</i>: PCIe3 2-slot backplane with 1 HIB-T x16 target slot and 1 PCIe3 x16 (3-slots)*</li> <li>• <i>OSS-PCIe-BP-427</i>: PCIe3 2-slot backplane with 1 HIB-T x16 target slot and 1 PCIe3 x16 (2-slots)*</li> <li>• <i>OSS-PCIe-BP-440</i>: PCIe3 2-slot short backplane with 1 HIB-T x8 target slot and 1 PCIe3 x8 (2-slots)</li> <li>• <i>OSS-PCIe-BP-419</i>: PCIe3 3-slot backplane with 1 HIB-T x16 target slot and 2 PCIe3 x8 (3-slots)*</li> <li>• <i>OSS-PCIe-BP-436</i>: PCIe3 4-slot backplane with 1 HIB-T x16 target slot, 1 PCIe3 x8 and 2 PCIe x4 slots (4-slots)*</li> <li>• <i>OSS-PCIe-BP-420</i>: PCIe2 6-slot backplane with 1 HIB-T x16 target slot, 5 PCIe2 x4 slots (6-slots)*</li> <li>• <i>OSS-PCIe-BP-416</i>: PCIe2 9-slot backplane with 1 HIB-T x16 target slot, 8 PCIe2 x4 slots (9-slots)*</li> <li>• <i>OSS-PCIe-BP-452</i>: PCIe3 9-slot backplane with 1 HIB-T x16 target slot, 8 PCIe3 x8 slots (9-slots)*</li> </ul>
<b>Host/Target Interfaces</b>	Each backplane in the enclosure supports a host/target interface chosen from the following: <b>SHB Target Kits (used only with SHB Target Slot Backplanes):</b> <ul style="list-style-type: none"> <li>• PCIe2 x4 host to SHB target slot (20 Gbps)</li> <li>• PCIe2 x8 host to SHB target slot (40 Gbps)</li> <li>• XMC x8 host to SHB target slot (40 Gbps)</li> <li>• CPCI x4 host to SHB target slot (10 Gbps)</li> <li>• PXIe x4 host to SHB target slot (20 Gbps)</li> </ul>

<b>Host/Target Interfaces (continued)</b>	<b>HIB-T Target Kits (used only with HIB-T Target Slot Backplanes):</b> <ul style="list-style-type: none"> <li>• PCIe2 x1 host to x1 HIB-T target slot (5 Gbps)</li> <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 x8 dual host to x8 HIB-T target slot (64 Gbps) – dual host adapter requires a x16 slot in the host system</li> <li>• PCIe3 x16 host to x16 HIB-T target slot (128 Gbps)</li> <li>• Thunderbolt to x4 HIB-T target slot (10 Gbps)</li> <li>• Thunderbolt 2 to x4 HIB-T target slot (20 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>• PCIe2 x1 copper cables from 0.5m – 4m in length</li> <li>• PCIe2 x4 copper cables from 0.5m – 4m in length or x4 fiber cables from 1m to 300m in length</li> <li>• PCIe2 x8 copper cables from 0.5m – 4m in length or x8 fiber cables from 1m to 300m in length</li> <li>• PCIe2 x8 to x4 copper adapter cables from 0.5m – 2m in length</li> <li>• PCIe 3 x8 copper cables from 0.5m – 2m in length or x8 fiber cables from 1m to 300m in length</li> <li>• PCIe2 x16 copper cables from 0.5m - 4m in length</li> <li>• PCIe3 x16 copper cables from 0.5m - 2m in length</li> </ul> <b>Thunderbolt Cables:</b> <ul style="list-style-type: none"> <li>• Thunderbolt 1/2 copper cables from 0.5 to 3m in length or fiber cables from 2m to 100m in length</li> </ul>
<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>Single Power Supplies:</b> <ul style="list-style-type: none"> <li>• 850W 80Plus Gold ATX power supply</li> <li>• 1200W 80Plus Gold ATX power supply</li> </ul> <b>Redundant Power Supply:</b> <ul style="list-style-type: none"> <li>• Dual redundant 850W 80Plus power supply shared among all backplanes in the enclosure</li> </ul> <b>Split Power Supply:</b> <ul style="list-style-type: none"> <li>• Dual 850W 80Plus power supply for use with 2 separate backplanes</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>	Designed to meet: FCC Class A CE RoHS