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

Enclosure	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
PCIe Backplanes	Supports one or more of the following backplanes up to 20 total slots (* slots are all x16 physical when noted): **SHB Target Slot Backplanes:** • *OSS-PCIe-BP-2022*: PCIe 2.0 20-slot backplane with 1 SHB target slot, 2 PCIe2 x8 and 17 PCIe 2 x4(20-slots)* • *OSS-PCIe-BP-369*: PCIe 2.0 14-slot backplane with 1 SHB target slot, 7 PCIe2 x8 and 6 PCIe2 x4 (14-slots)* **HIB-T Target Slot Backplanes:** • *OSS-PCIe-BP-184*: PCIe3 2-slot backplane with 1 HIB-T x8 target slot and 1 PCIe3 x8 (3-slots) • *OSS-PCIe-BP-2019*: PCIe3 2-slot backplane with 1 HIB-T x16 target slot and 1 PCIe3 x16 (3-slots)* • *OSS-PCIe-BP-412*: PCIe3 2-slot backplane with 1 HIB-T x16 target slot and 1 PCIe3 x16 (3-slots)* • *OSS*-PCIe-BP-427: PCI e3 2-slot backplane with 1 HIB-T x16 target slot and 1 PCIe3 x16 (2-slots)* • *OSS-PCIe-BP-440*: PCIe3 2-slot short backplane with 1 HIB-T x8 target slot and 1 PCIe3 x8 (2-slots) • *OSS-PCIe-BP-419*: PCIe3 3-slot backplane with 1 HIB-T-x16 target slot and 2 PCIe3 x8 (3-slots)* • *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)* • *OSS-PCIe-BP-420*: PCIe2 6-slot backplane with 1 HIB-T x16 target slot, 5 PCIe2 x4 slots (6-slots)* • *OSS-PCIe-BP-416*: PCIe2 9-slot backplane with 1 HIB-T x16 target slot, 8 PCIe2 x4 slots (9-slots)* • *OSS-PCIe-BP-452*: PCIe3 9-slot backplane with 1 HIB-T x16 target slot, 8 PCIe3 x8 slots (9-slots)*
Host/Target Interfaces	Each backplane in the enclosure supports a host/target interface chosen from the following: **SHB Target Kits (used only with SHB Target Slot Backplanes):** • PCIe2 x4 host to SHB target slot (20 Gbps) • PCIe2 x8 host to SHB target slot (40 Gbps) • XMC x8 host to SHB target slot (40 Gbps) • CPCI x4 host to SHB target slot (10 Gbps) • PXIe x4 host to SHB target slot (20 Gbps)

Host/Target Interfaces (continued)	**HIB-T Target Kits (used only with HIB-T Target Slot Backplanes):** • PCIe2 x1 host to x1 HIB-T target slot (5 Gbps) • PCIe2 x4 host to x4 HIB-T target slot (20 Gbps) • PCIe2 x8 host to x8 HIB-T target slot (40 Gbps) • PCIe2 x16 host to x16 HIB-T target slot (80 Gbps) • CPCI x4 host to x4 HIB-T target slot (10 Gbps) • PXIe x4host to x4 HIB-T target slot (20 Gbps) • XMC x8 host to x8 HIB-T target slot (40 Gbps) • PCIe3 x8 dual host to x8 HIB-T target slot (64 Gbps) – dual host adapter requires a x16 slot in the host system • PCIe3 x16 host to x16 HIB-T target slot (128 Gbps) • Thunderbolt to x4 HIB-T target slot (10 Gbps) • Thunderbolt 2 to x4 HIB-T target slot (20 Gbps)
Cables	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): **PCIe Cables:** • PCIe2 x1 copper cables from 0.5m – 4m in length • PCIe2 x4 copper cables from 0.5m – 4m in length or x4 fiber cables from 1m to 300m in length • PCIe2 x8 copper cables from 0.5m – 4m in length or x8 fiber cables from 1m to 300m in length • PCIe2 x8 to x4 copper adapter cables from 0.5m – 2m in length • PCIe 3 x8 copper cables from 0.5 m– 2m in length or x8 fiber cables from 1m to 300m in length • PCIe2 x16 copper cables from 0.5m - 4m in length • PCIe3 x16 copper cables from 0.5m - 2m in length **Thunderbolt Cables:** • Thunderbolt 1/2 copper cables from 0.5 to 3m in length or fiber cables from 2m to 100m in length
Power	Several power supply options are available for the 20-slots worth of expansion. The supplies are mounted inside the front panel of the chassis: **Single Power Supplies:** • 850W 80Plus Gold ATX power supply • 1200W 80Plus Gold ATX power supply **Redundant Power Supply:** • Dual redundant 850W 80Plus power supply shared among all backplanes in the enclosure **Split Power Supply:** • Dual 850W 80Plus power supply for use with 2 separate backplanes
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	Designed to meet: FCC Class A CE RoHS