

4U Value GPU Accelerator System

This 10 slot rackmount expansion platform provides GPU expansion at a value price. The 4UV supports 2 PCIe 3.0 x16 host connections to 10 PCIe 3.0 x16 slots up to 2m away from the host server. The system supports 8 double width GPUs or 10 single slot GPUs or add-in boards. Two fan choices allow for high-power GPU cooling up to 300W per GPU or a set-and-forget manual speed control using PWM fans when lower power GPUs or add-in cards are used. Two 2000W power supplies provide up to 4000W of usable power to the GPU accelerator system.

PN: OSS-PCIe-4UV-10-2

Features

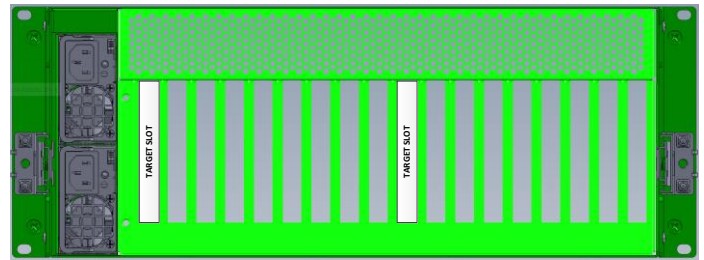
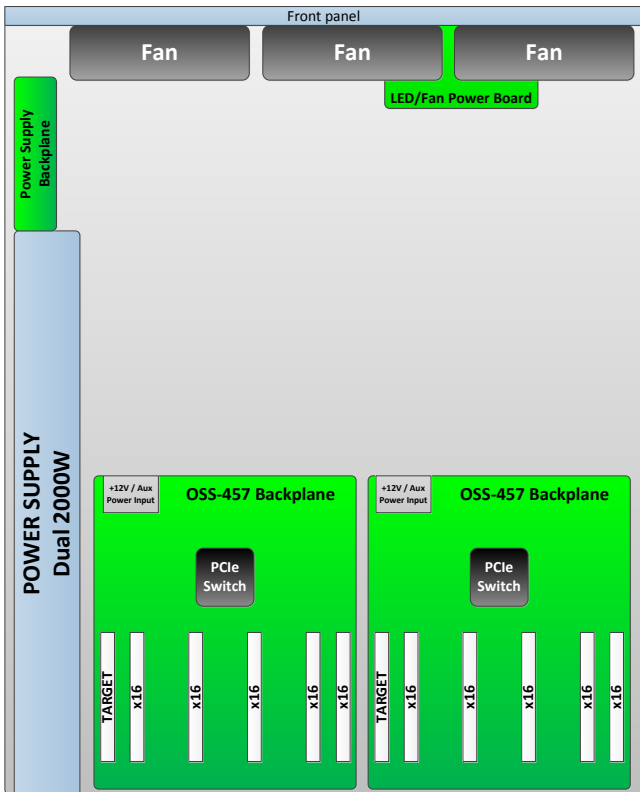
- 4U rackmount design
- 10 PCIe 3.0 x16 expansion slots
- Two PCIe 3.0 x16 host connections
- Two PCIe cables up to 100m
- Tach and PWM fan options
- Two 2000W load-sharing power supplies
- Eight EPS12V PCIe power connectors



Specifications

Enclosure	19"W x 18.5"D x 7"H (4U) Supports up to 10 usable full-height, full-length PCIe slots plus 2 cable interfaces in 10-2 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-PCIe-BP-457 PCIe3 5-slot expansion backplanes. The 10-slot integrated system includes: <ul style="list-style-type: none"> • Two HIB38-x16 PCIe cable target interfaces (one per backplane) • Six PCIe3 x16 double-width slots • Four PCIe3 x16 single-width slots
Host/Target Interface	The system includes two PCIe 3.0 x16 host/target interfaces for connecting the accelerator to just about any server. HIB38-x16 Host/Target Interfaces: <ul style="list-style-type: none"> • Half-height, half length, single slot x16 PCIe add-in card form factor • PCIe3 x16 physical card edge connector (128 Gbps) • PCIe Cable Specification 2.0 x16 cable connector (128 Gbps) <ul style="list-style-type: none"> ○ Accepts iPass copper cables up to 2m • Broadcom PEX 8733 switch includes: <ul style="list-style-type: none"> ○ Fast-cut through, 150ns latency ○ Non-blocking switch fabric ○ Maximum server compatibility design ○ SSC isolation ○ Integrated 4-channel DMA engine • 6.4W typical

Cables	Each host/target interface kit requires an associated cable chosen from the following (some cable lengths may be special order): PCIe Cables: <ul style="list-style-type: none"> • Passive x16 0.5m cable • Passive x16 1m cable • Passive x16 2m cable
Cooling	Three 120mm x 38mm fans mounted to the front bezel of the chassis <ul style="list-style-type: none"> • 250 CFM fixed-speed fans • Tachometer monitoring via front panel LED • Perfect for GPU or FPGA accelerator applications up to 3000W
Power	Dual load-sharing power supplies pluggable from the rear of the chassis: <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 Aux Power: <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	Agency Certifications (testing pending): FCC Class A CE Safety & Emissions UL, cUL RoHS2



Rear View

OSS-PCIe-4UV-10-2 Block Diagram