

OSS Gen3 4U Value 10-Slot GPU Expansion

This 10-Slot rackmount expansion chassis provides significant GPU expansion capabilities at insignificant prices. The 4UV-10-2 links 10 PCIe 3.0 x16 slots to the host server with 2 PCIe 3.0 x16 host-connections. The system supports up to 8 double-width GPUs, or 10 single-wide add-in-cards. With options for static or dynamic cooling, users have the choice to control fan-speeds for optimal high-power cooling. Each 4UV chassis is equipped with two 2000W power supplies which provide up to 4000W of usable redundant power to the GPU accelerator system.

Features

- 4U Rackmount Design
- 10 PCIe 3.0 x16 Expansion Slots
- Two PCIe 3.0 x16 Host Connections
- PCIe x16 Cables (up to 3-Meters)
- Tach and PWM Fan Options
- Two 2000W Load-Sharing Power Supplies
- Eight EPS12V PCIe Power Connectors



Specifications

Enclosure	<p>Supports (Electrical):</p> <ul style="list-style-type: none"> • 10-2 Configuration <ul style="list-style-type: none"> ○ Up to 10 full-height/full-length PCIe slots (75W Power to Each) ○ Two Host Connection Interfaces • Extended-Height Cards • Internal Auxiliary-Power for GPUs with Top-Side Power-Connects for Additional Power • System Status Tri-Color LED Panel (Power and Fan-Status) <p>Dimensions: 19"W x 18.5"D x 7"H (4U) Aesthetics: Black Medium-Texture Liquid-Paint Finish with Optional OEM-Logo Area Rackmounts: Toolless Rack-Slides Included</p>
PCIe Backplanes	<p>Two 5-Slot PCIe 3.0 x16 Expansion Backplanes (OSS-PCIe-BP-457) The 10-Slot Integrated System Includes:</p> <ul style="list-style-type: none"> • Two PCIe 3.0 x16 Cable-Target Interfaces (One per Backplane) • Six PCIe 3.0 x16 Double-Width Slots (Three per Backplane) • Four PCIe 3.0 x16 Single-Width Slots (Two per Backplane)
Host/Target Interface	<p>Four PCIe 3.0 x16 Host/Target Adapter Cards for Expansion-to-Host Uplink Host/Target Interface Boards:</p> <ul style="list-style-type: none"> • Form Factor: Half-Height/Half-Length, Single-Slot PCIe 3.0 x16 Add-in-Card • Card-Edge Connector: PCIe3 x16 Physical (128 Gbps) • Cable Connector: PCIe Cable Specification 3.0 x16 (128 Gbps) <ul style="list-style-type: none"> ○ Option 1: HIB38 Interface Board <ul style="list-style-type: none"> ▪ iPass Connector ▪ Accepts PCIe x16 Copper Cables with iPass Connectors ○ Option 2: HIB68 Interface Board <ul style="list-style-type: none"> ▪ SFF-8644 Connector ▪ Accepts Mini-SAS HD Cables with SFF-8644 Connectors

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	<ul style="list-style-type: none"> • Switch: Broadcom PEX 8733 Switch; Includes: <ul style="list-style-type: none"> ○ Fast Cut-Through (132ns Latency) ○ SSC Isolation ○ Non-Blocking Switch Fabric ○ Maximum Server-Compatibility Design ○ Integrated 4-channel DMA Engine • Average Power Consumption: 6.4W Typical
Cables	<p>HIB38 Interface Board Option (Includes 1 Cable per Host-Uplink)</p> <ul style="list-style-type: none"> • 0.5-Meter Passive PCIe x16 Cable • 1-Meter Passive PCIe x16 Cable • 2-Meter Passive PCIe x16 Cable <p>HIB68 Interface Board Option (Includes 4 Cables per Host-Uplink)</p> <ul style="list-style-type: none"> • 1-Meter Mini-SAS HD Cables • 2-Meter Mini-SAS HD Cables • 3-Meter Mini-SAS HD Cables
Cooling	<p>Three High-Power Fans, Mounted to Front Bezel of the Chassis</p> <ul style="list-style-type: none"> • Dimensions: 120mm x 38mm • Speed: 250CFM • Use: Cools Multi-GPU or FPGA Applications up to 3000W • Monitoring: Tachometer Monitoring via Front-Panel LED • Optional: Fan Speed Controller (<i>not included in standard price</i>)
Power	<p>Dual Load-Sharing Power Supplies, Pluggable from the Rear of the Chassis</p> <p>Two 2000W 80Plus Titanium Efficiency Power Supplies with Dual IEC C14 AC Input Connectors</p> <ul style="list-style-type: none"> • Output Power (per PSU) <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 • Total Power to the System: 4000W Non-Redundant • Redundancy: Hot-Swappable when Total System Power Requirements are Under 2000W • Aux Power: 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	<p>Agency Certifications (testing pending):</p> <ul style="list-style-type: none"> • FCC Class A • CE Safety & Emissions • UL, cUL • RoHS2