OSS Gen3 4U Value 5-Slot GPU Expansion



This 5-Slot rackmount expansion chassis provides significant GPU expansion capabilities at insignificant prices.

The 4UV-5-1 links 5 PCIe 3.0 x16 slots to the host server with 1 PCIe 3.0 x16 host-connection. The system supports up to 4 double-width GPUs, or 5 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
- 5 PCle 3.0 x16 Expansion Slots
- One PCle 3.0 x16 Host Connection
- PCIe x16 Cables (up to 3-Meters)
- Tach and PWM Fan Options
- Two 2000W Load-Sharing Power Supplies
- Eight EPS12V PCle Power Connectors



Specifications

Enclosure	Supports (Electrical):
	• 5-1 Configuration
	 Up to 5 full-height/full-length PCIe slots (75W Power to Each)
	 One Host Connection Interface
	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)
	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
PCIe Backplanes	One 5-Slot PCIe 3.0 x16 Expansion Backplane (OSS-PCIe-BP-457)
	The 5-Slot Integrated System Includes:
	One PCle 3.0 x16 Cable-Target Interface
	Three PCle 3.0 x16 Double-Width Slots
	Two PCle 3.0 x16 Single-Width Slots
Host/Target Interface	Two PCIe 3.0 x16 Host/Target Adapter Cards for Expansion-to-Host Uplink
	Host/Target Interface Boards:
	Form Factor: Half-Height/Half-Length, Single-Slot PCle 3.0 x16 Add-in-Card
	Card-Edge Connector: PCle3 x16 Physical (128 Gbps)
	Cable Connector: PCle Cable Specification 3.0 x16 (128 Gbps)
	Option 1: HIB38 Interface Board
	■ iPass Connector
	 Accepts PCle x16 Copper Cables with iPass Connectors
	Option 2: HIB68 Interface Board
	■ SFF-8644 Connector
	 Accepts Mini-SAS HD Cables with SFF-8644 Connectors

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	Switch: Broadcom PEX 8733 Switch; Includes:
	o Fast Cut-Through (132ns Latency)
	o SSC Isolation
	Non-Blocking Switch Fabric
	Maximum Server-Compatibility Design
	Integrated 4-channel DMA Engine
	Average Power Consumption: 6.4W Typical
Cables	HIB38 Interface Board Option (Includes 1 Cable per Host-Uplink)
	0.5-Meter Passive PCIe x16 Cable
	1-Meter Passive PCIe x16 Cable
	2-Meter Passive PCIe x16 Cable
	HIB68 Interface Board Option (Includes 4 Cables per Host-Uplink)
	1-Meter Mini-SAS HD Cables
	2-Meter Mini-SAS HD Cables
	3-Meter Mini-SAS HD Cables
Cooling	Three High-Power Fans, Mounted to Front Bezel of the Chassis
	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 (not included in standard price)
Power	Dual Load-Sharing Power Supplies, Pluggable from the Rear of the Chassis
	Two 2000W 80Plus Titanium Efficiency Power Supplies with Dual IEC C14 AC Input Connectors
	Output Power (per PSU)
	o 1000W: 100-127Vac / 12.5-9.5A / 50-60 Hz
	o 1800W: 200-220Vac / 10-9.5A / 50-60 Hz
	o 1980W: 220-230Vac / 10-9.8A / 50-60 Hz
	o 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	Agency Certifications (testing pending):
	• FCC Class A
	CE Safety & Emissions
	UL, cUL
	• RoHS2