ARCTICA 4808XS

A CUSTOMIZABLE, TOP-OF-RACK SWITCH WITH 10GB HOSTS FOR 100GB INFRASTRUCTURES

OVERVIEW

As modern data centers and high-performance computing systems improve performance and efficiency, the number of interactions between devices increases exponentially. To prevent bottlenecks, high-performance networking switches are mission critical. Designed for performance and scalability, Penguin Computing's Arctica 4808xs is equipped with virtual extensible LAN (VxLAN) routing and an enlarged L2/L3 forwarding table. Capable of 100Gb, 50Gb, 40Gb, 25Gb and 10Gb uplink speeds, the Arctica 4808xs works great as a top-of-rack aggregation switch.

FEATURES & BENEFITS

- 1.18 Tbps total bandwidth with with low latency (300ns port-to-port) to deliver high performance packet switching
- 165W typical power consumption (with passive cables) for easy facility environment planning
- Provides a upgrade path of 10/40 GbE network to 100GbE Fabrics
- x86-based control plane provides easier integration of server administration tools

FEATURE	TECHNICAL SPECIFICATIONS	
Form Factor	1U Top-of-Rack Form Factor	
Chassis	Ports:	• 48x 10Gb SFP+ ports 8x 100Gb QSFP28 ports
	Power Supplies	• 2x 460W Redundant Power Supplies
	Airflow:	• Choice of front-to-back and back-to-front
	RJ-45 Serial Console:	• 1
	RJ-45 1/10/100 Base-T Management:	• 2
	USB Type A Storage:	• 1
Hardware	Data Plane:	• Mellanox Spectrum • Cut-through operation • Forwarding Capacity - 1.18 Tbps (full bidirectional line rate on all ports) • Packet Buffer - 16MB
	Control Plane:	• Management Processor - Intel 1.4 GHz, Dual-core, 64 bit processor - 8GB RAM - 32GB SSD Storage

FEATURE	TECHNICAL SPECIFICATIONS	
Network OS	Loaded with Open Network Install Environment (ONIE)	
		• Compatible with Cumulus Linux
		• Layer-2 and Layer-3 Architectures
	Layer 2	• 802.1d Bridging
		• 802.1w RSTP
		• 802.1s MSTP
		• 802.1q VLAN 4096
		• 802.1ad (Q-inQ) VLAN Double Tagging
		• 802.3ad Link Aggregation/LACP
		• Multi-Chassis LAG
		• Storm Control
		• IGMP/MLD Snooping
	Layer 3	• IPv4/v6 Routing Protocols
		• OSFP
		• BGP
		• VRF
		• ECMP/WCMP
		• VRRP
		• IP Multicast
		• PIM-SM
		• PIM-DM
Data Center/Virtualization	VXLAN Bridging	
	VXLAN Routing	

Learn More

Configure your ideal server at **www.penguincomputing.com.**

For pricing on your specific configuration, contact a representative by email at **sales@penguincomputing.com** or call **1-888-PENGUIN (736-4846).**

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About Penguin Computing

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