ARCTICA 4806XT

A CUSTOMIZABLE 10G BASE-T SWITCH IDEAL FOR TOP, MIDDLE, OR END-OF-ROW DEPLOYMENTS

PENGUIN COMPUTING

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 4806xt provides full line-rate switching at Layer 2 or Layer 3 across 48 x 10GbE ports and 6 x 40GbE uplinks. The Arctica 4806xt was designed as a top-of-rack switch for virtualized data centers, however, the longer transmission distance of Ethernet (up to 330 ft) also makes it an ideal option to be located in MoR (middle-of-row) or EoR (end-of-row) positions.

FEATURES & BENEFITS

- 48x 10G Base-T RJ45 host ports provide natural connection for 10G Ethernet LOM, and deployment flexibility of MoR or EoR
- Achieve optimal uplink bandwidth and support any mix of 10 and 40 GbE host and spine interconnections with 6x 40 Gigabit QSFP+ uplink ports
- 12V DC power option for OCP deployment environments
- Easily integrate server administration tools with a x86-based control plane

FEATURE	TECHNICAL SPECIFICATIONS	
Form Factor	1U Top-of-Rack Form Factor	
Chassis	Ports:	• 48x RJ-45 1/10GbE ports + 6x QSFP 10/40GbE ports
	Maximum Power Consumption:	• 348W
	Airflow:	• Choice of front-to-back and back-to-front
	RJ-45 Serial Console:	• 1
	RJ-45 1/10/100 Base-T Management:	• 1
	USB Type A Storage:	• 1
Hardware	Data Plane:	• Broadcom BCM56864 "Trident II+"
		• Cut-through operation, store and forward mode available for speed conversions
		• Forwarding Capacity - 720 Gbps (full bidirectional line rate on all ports)
		• Packet Buffer - 16MB

	Control Plane:	• Management Processor
		  - Intel Atom quad-core 2.4Ghz x86 processor
		  - 8GB RAM
		  - 8GB NAND flash Storage

FEATURE	TECHNICAL SPECIFICATIONS		
Network OS	Loaded with Open Network Install Enviornment (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
Penguin Computing, Inc. is a 20-year-old, U.S.-based global provider of high-performance computing (HPC), artificial intelligence (AI), and data center solutions with more than 2,500 customers in 40 countries, across eight major vertical markets. Penguin Computing offers a comprehensive portfolio of hardware, software, and services, including solutions based on the Open Compute Project (OCP), as well as financing and top-rated customer support. Penguin Computing products include Linux-based servers, software, integrated, turn-key clusters, enterprise-grade storage, and bare metal HPC on cloud via Penguin Computing® On-Demand™ (POD).