

Arctica 4804ip- Cumulus RMP

48 x 1GbE Data Center Switch

Penguin Computing's Arctica 4804ip is a cost-effective 48 port 1 GbE Layer 2+ network switch in a compact 1U form factor, suited for Data Center Out-Of-Band (OOB) networks, such as IPMI. The 4804ip provides 48 10-BaseT/100-BaseTX/1000-BaseT ports and 4 1G/10G SFP+ ports.

The Arctica 4804ip implements an x86-based control plane for easier integration of Linux and OpenStack automation tools and comes ready to use, pre-installed with Cumulus Rack Management Platform Software.

Cumulus Rack Management Platform

The Cumulus RMP (Rack Management Platform) is a network operating system solution that enables out-of-band management use cases. It provides an open platform for customers and system integrators to use as is or build rack management applications on top.

Cumulus RMP shares the same architecture, foundation and user experience as Cumulus® Linux®, with a smaller feature set designed specifically for the out-of-band management needs of the rack. Because Cumulus RMP is a true Linux distribution, it can be automated and managed using the same Linux tools employed to automate and manage switches running Cumulus Linux as well as Linux servers.

Penguin Computing specializes in delivering turn-key High Performance Computing clusters and Data Center systems that include software solutions for cluster and workload management, high performance interconnects, storage systems and a power delivery infrastructure. All components are integrated in rack enclosures, configured for optimal performance by Penguin's HPC experts and ready to use.

Penguin systems are tested for compatibility with all major commercial and freely available Linux distributions and are available with Red Hat Enterprise Linux, SuSE Linux Enterprise Server or CentOS pre-installed.



Highlights

- 1.33 GHz BayTrail x86 Dual Core, 1/2 GB DRAM, 512 MB/1 GB NOR Flash, 4 GB NAND Flash
- Broadcom Hurricane 2 Data Plane Switching Silicon Processor
- Routing Tables: MAC 16K, VLAN 4K, L3 Hosts 1K IPV4
- Jumbo Packet: 9K bytes Payload improving end-to-end TCP Performance

Layer 2 Hardware Supported Features

- 802.3ad LACP
- 802.1D STP, 802.1w RSTP, 802.1s MSTP
- 802.1Q VLAN 4096, SVLAN, PVLAN
- 802.1P L2 Prioritization
- 802.1AB LLDP
- IGMP/MLD Snooping
- Port Mirroring

Layer 3 Hardware Supported Features

- Hardware-based IP Forwarding
- Limited VFP, IFP, EFP

Power And Cooling

- Power efficient, Less than 70W Consumption, fixed PSU
- Optional POE+ Power available up to a maximum of 720W
- 100-240v AC Auto-ranging, 47-63 Hz Auto input
- Fixed fans, Back to Front or Front to Back system cooling

Environmental: Operating

- Temperature 0 - 45 degrees C
- Humidity 5% - 95% non-condensing

Software Features

Cumulus RMP is specially purposed for out-of-band management use cases. It supports all the fundamental features required to implement the management networks.

- L2 support: LLDP, PTM, Bonding (link aggregation), Ethernet bridging (VLANs), Spanning tree/RST, 802.1Q VLAN tagging, VLAN-aware bridging, BPDU guard, Bridge assurance, BPDU filter
- L3 support: Static routing
- Additional Functionality: Operating system install & upgrade, Extensibility, Hardware management, Management, Monitoring & Troubleshooting, Orchestration, Monitoring
- Additional Out-of-Band Management Applications: IPMItool, screen, tmux, vncproxy, TFTP server, NTP server, ISC-DHCP V4/V6 server, DNSmasq

Approvals

- EMC CN(GB9254-2008), EU(EN55022,EN55024), FCC, VCCI, CCC
- Safety IEC60950-1, GB4943, UL/CSA, CB, CCC



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