TECHNICAL INFORMATION DOCUMENT

3U VPX Form Factor 16 Port GbE Ethernet Switch

Overview

- **3U VPX Form Factor**
- **Full support for IPv4 and IPv6 network operations**
- **16-port models feature 16-ports 10/100/1000Base-T**
- **Fully non-blocking wire-speed performance with all ports and all frame sizes.**

HW Feature	Specification
Switching Fabric	Carrier Grade L2 Gigabit Ethernet Switch Fully non-blocking wire-speed performance with all ports and all frame sizes 2Mb integrated shared packet memory
Management/Control Processor	Integrated MIPS Management Processor, 1024 MB DDR3L RAM, 512 MB Flash
Ethernet Fabric Ports	16 ports 1000Base-T supporting 10Base-T, 100Base-TX, and 1000Base-T
Ethernet Port Specifications	10Base-T interfaces per IEEE 802.3
	100Base-TX interfaces per IEEE 802.3u
	1000Base-T interfaces per IEEE 802.3ab
	1000Base-X interface per IEEE 802.3ap
	Energy Efficient Ethernet per IEEE 802.3az
LEDs	Front panel LEDs for Power, Status, Fail
Form Factor	3U VPX
Environmental	-40 +70 Celcius
	Conduction-cooled

SW Feature	Specification
Ethernet Performance	Fully non-blocking wire-speed performance with all ports and all frame sizes
Capacity	2Mb integrated shared packet memory Support for Jumbo Packets to 10K bytes Up to 8K Layer 2 MAC addresses Up to 4,096 VLANs Up to 8K Layer-2 Multicast Groups
Layer 2 Switching Features	Support for IPv4 and IPv6 switching Automatic switch learning and aging with up to 8,192 MAC addresses Support for jumbo frames up to 10K bytes QoS Support with 8 traffic classes VLANs -4,096 VLANs per 802.1Q -VLAN broadcast, 802.1Q VLAN tagging & double-tagging, Port based VLAN -IPv6 MLD Multicast -8K L2 multicast groups, 8K IPv4/v6 multicast groups -IGMPv2/v3 , IGMP snooping - MLD snooping for forwarding of multicast traffic -GVRP Link Aggregation (802.3ad, 802.1ax) for increased bandwidth and load sharing Port mirroring Rapid and Multiple Spanning Tree protocol (802.1w, 802.1s) IEEE 802.3x flow control and back-pressure support Packet or byte-based rate limiting on a per-port basis
Management	Port-based security per 802.1x ,RADIUS accounting, TACACS+ authentication ACL (Access Control List) Management via CLI in-band via Telnet, out-of-band via serial RS-232 Management via Web/HTTP or HTTPS with SSHv2 security SNMP v1/v2/v3, Syslog, RMON All management interfaces feature user-level password security DHCP, DHCP snooping – DNS
Optional Features	IEEE-1588v2 Precision Time Protocol (PTP) with support for 1-step and 2-step clock sync