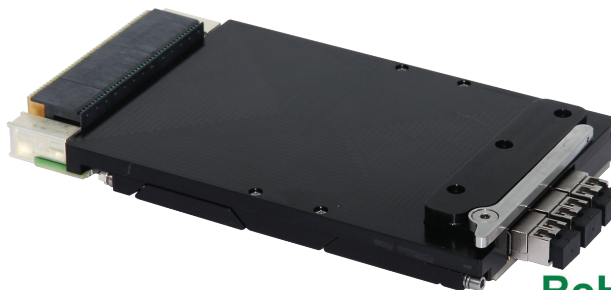




4590a

- Speed, duplex, auto-negotiation, flow control and power management on all ports
- VLAN support /802.1Q tagging
- Port mirroring
- Port rights management
- Static MAC address list
- Static IPM address list
- Port static authentication
- IEEE 802.1X authentication
- Ingress filtering
- Storm prevention
- QoS on all ports
- Ingress /egress access lists
- Rate limiting
- QoS remarking
- Static trunking / LACP
- STP / RSTP
- Ring
- IGMP/MLD snooping
- Login/password, key or certificate authentication
- Secure switch management by HTTPS, SSH or SNMPv3
- 802.1X port-based authentication
- Layer 2 802.1p User Priority tagging
- Layer 3 IP DSCP (Diffsev)
- Access Control Lists (L2, L3, L4)
- IGMP snooping (v1, v2, v3)
- MLD snooping (v1, v2)
- ICMP
- Proxy-ARP
- DHCP-relay
- NAT
- IPv4 routing (unicast/multicast)
- Static IP routing (unicast and multicast)
- RIPv1, RIPv2 (IPv4)
- RIPvng(IPv6)
- OSPFv2 (IPv4) / OSPFv3(IPv6)
- PBIT results
- Temperature information
- CPU load
- Switch state
- Global and detailed ports statistics
- VLANs statistics
- Bridge egress, ingress and RMON statistics
- Ingress and egress access lists statistics
- Rate limiting statistics
- Queues and ingress buffers counters
- IGMP snooping state by VLAN and by port
- MAC address table access
- IPM address table access
- STP/RTSP state
- ...

Ethernet Control and Data Plane Switch 3U OpenVPX Gigabit & 10/40Gigabit L3+ IP Router



Description

The ComEth4590a is a high performance layer 3 switch implementing two ethernet switch matrix that control and separate physically the Control and Data Planes for highly secured VPX3U systems.

These two Ethernet packet processors, managed by the Dual core ARM processors and the Interface Concept Switchware, offer remarkable switching capabilities and multiple Giga, 10 and 40G Ethernet configurations.

Control Plane: ■

- 7 * Ultra Thin Pipe ports routed on rear I/O (P2), operating in 10GBase-KR or 1000Base-KX modes
- 1 * front optical port supporting 10GBase-SR or 1000Base-SX

Data Plane: ■

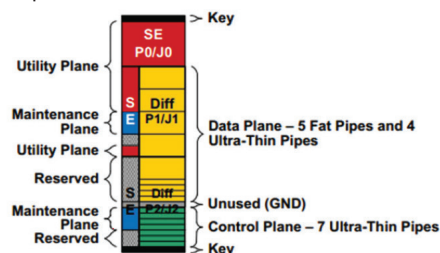
- 5 * Fat Pipe ports routed on rear I/O (P1/P2), operating in 10GBase-KX4 or 40GBase-KR4 modes note: each Fat Pipe can also be splitted to provide 4 * 10GBase-KR or 1000Base-KX ports
- 2 * Ultra Thin Pipe ports routed on rear I/O (P2), operating in 10GBase-KR or 1000Base-KX modes
- 2 * Ultra Thin Pipe ports routed on rear I/O (P2), operating in 1000Base-KX mode
- 2 * front optical ports supporting 10GBase-SR or 1000Base-SX

The ComEth4590a also implements a micro-controller dedicated to the management plan (VITA 46.11).

The ComEth4590a is available in air-cooled and conduction cooled versions.

The ComEth 4590a is compliant with the slot profile:

SLT3-SWH-5F4UG7U



Americas distribution & support



Your Solution Partner

Tel: (510) 656-3400 | www.elma.com

ComEth 4590a

3U OpenVPX Gigabit & 10/40Gigabit L3+ IP Router

Switch Management

The ComEth 4590a can be monitored via:

CLI: CONSOLE (RS323) ou any of the Ethernet ports (TELNET or SSH),

WEB: any of the Ethernet ports (HTTP or HTTPS),

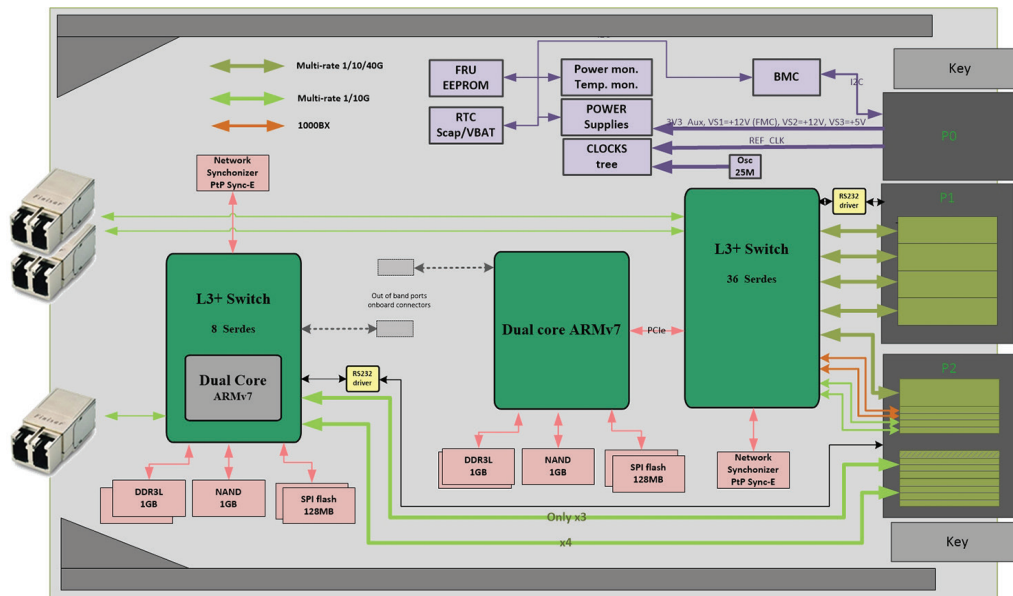
MIB browser or SNMP agent: any of the Ethernet ports (SNMPv2c or SNMPv3).

The Switchware and configuration files can be updated by FTP (or SFTP) and it is always possible to restore the previous release or the default factory configuration.

Many additional functions are provided on this full-managed version : Configuration of all the PHY and switch parameters, ports monitoring, static MAC address, QoS policy, Multicast and VLAN control, STP/RSTP protocols, MAC security, monitoring of all statistical counters and an extensive list of RMON counters...

The management application, named SWITCHWARE, is carried out by the processor of the ComEth 4590a.
Please consult the Switchware User's Manual for a comprehensive overview of all the product features.

Block Diagram:



Environmental Specifications:

For details, please consult the ComEth4590a page at www.interfaceconcept.com.

Ordering Information:

For sales in the Americas, please contact Elma Electronic at: tel. +1 (510) 656-3400 - email: sales@elma.com. For all other regions, please consult Interface Concept's website.

This document supersedes any earlier documentation relating to the products referred to herein. The information contained in this document is current at the date of publication. It may subsequently be updated or withdrawn without notice.



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