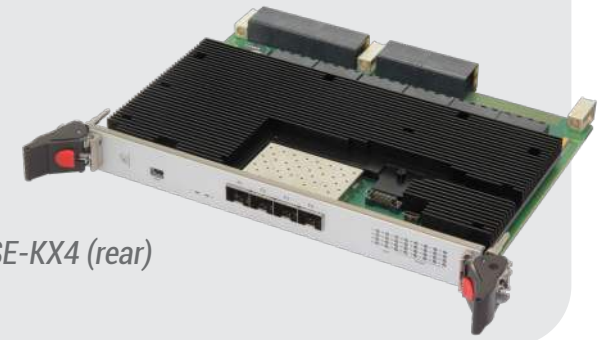
ComEth4341e

6U VPX 1/10 Gigabit Ethernet Switch

- *6U VPX*
- *Managed Layer 2+/ 3 switch*
- *VITA 65.0 Slot Profile SLT6-SWH-4F24T*
- *up to 32 ports*
- *10/100/1000BASE-T, 1000BASE-KX, 10GBASE-KX4 (rear)*
- *4 SFP+ (front)*



Overview

The **ComEth4341e** is a 6U VPX 1/10 Gigabit Ethernet switch ideal for use in high-computing defense and industrial applications. It supersedes the former **ComEth4341a** Ethernet switch, and adds 1 or 10 Gigabit Ethernet connections via 4 * front SFP+ connectors.

Description

The **ComEth4341e** is built on highly integrated Gigabit switch engine and PHY transceivers. Its matrix combines a full layer 3 router with an optimized power consumption, in a single equipment.

The **ComEth4341e** supports full-wire speed L2 bridging and L3 Unicast and Multicast routing with L2-L4 advanced traffic classification, filtering and prioritization.

The **ComEth4341e** design allows to create a ring where several Ethernet switches are connected to form a unified switching architecture.

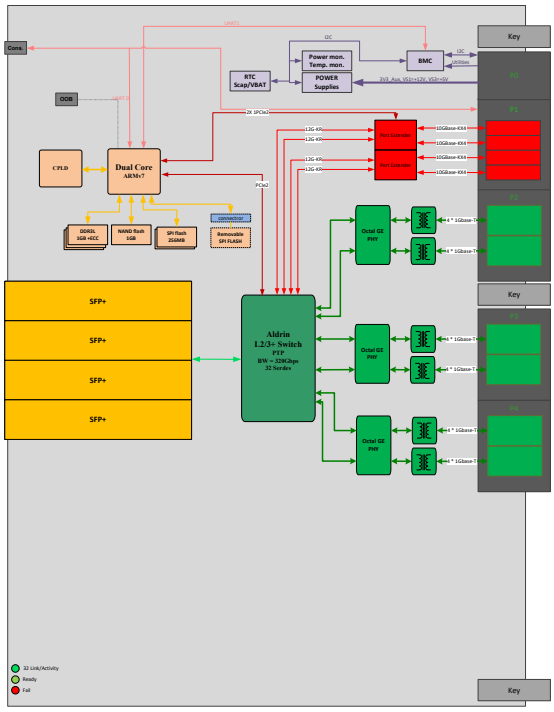
Ethernet interfaces

- 4 * SFP+ ports (front)
- 24 * 1000BASE-T (P2, P3, P4)
- 4 * 10GBASE-KX4 or 1000BASE-KX ports (P1)

The **ComEth4341e** is compliant with the VITA 65.0 Slot Profile SLT6-SWH-4F24T.

The **ComEth4341e** is available in air-cooled and conduction-cooled versions.

Block Diagram



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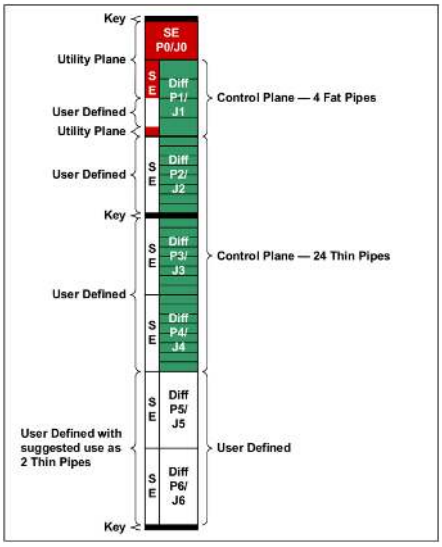

SLT6-SWH-4F24T

Main features

Layer 1/2
- 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
- IGMP/MLD snooping

Security Management
- Login/password, key or certificate authentication
- Secure switch management by HTTPS, SSH or SNMPv3
- 802.1X port-based authentication

QoS
- Layer 2 802.1p User Priority tagging
- Layer 3 IP DSCP (Diffsev)
- Access Control Lists (L2, L3, L4)

Multicast
- IGMP snooping (v1, v2, v3)
- MLD snooping (v1, v2)

Layer 3
- ICMP
- Proxy-ARP
- DHCP-relay
- NAT
- IPv4 routing (unicast/multicast)
- Static IP routing (unicast and multicast)
- RIPv1, RIPv2 (IPv4)
- RIPng(IPv6)
- OSPFv2 (IPv4) / OSPFv3(IPv6)

Others
- 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
- 1588-PTP-Transparent mode

Switch management

Switchware is a comprehensive switch management stack running on Interface Concept's Ethernet switch product line. It is running on the **ComEth4341e** on-board processor and supports a rich set of Layer 2/3 features controlled through the following interfaces:

- Graphical User Interface (GUI)
- Command Line Interface (CLI)
- SNMP (v2c or v3)

The **ComEth4341e** also supports VPX System Management in compliance with VITA 46.11 and based on the Intelligent Platform Management Interface (IPMI v1.5) for sensor management (temperature, voltage, current), inventory management, system configuration, recovery and diagnostic management.

Grades

Criterion	Coating	Operation Temperature	Rec. Airflow	Oper. HR% no cond.	Storage Temperature	Sinusoidal Vibration	Random Vibration	Shock 1/2 Sin. 11ms
Standard	Optional	0 to 55°C	1 .. 2 m/s	5 to 90%	-45 to 85°C	2G [20..2000]Hz	0.002g2 /Hz [10..2000]Hz	20G
Extended	Yes	-20 to 65°C	2 .. 3 m/s	5 to 95%	-45 to 85°C	2G [20..2000]Hz	0.002g2 /Hz [10..2000]Hz	20G
Rugged	Yes	-40 to 71°C or 85° C(*)	2 .. 5 m/s	5 to 95%	-45 to 100°C	5G [20..2000]Hz	0.05g2 /Hz [10..2000]Hz	40G
Conduction Cooled 71°C	Yes	-40 to 71°C at the thermal interface(*)		5 to 95%	-45 to 100°C	5G [20..2000]Hz	0.1g2 /Hz [10..2000]Hz	40G
Conduction Cooled 85°C	Yes	-40 to 85°C at the thermal interface(*)		5 to 95%	-45 to 100°C	5G [20..2000]Hz	0.1g2 /Hz [10..2000]Hz	40G

(*) Temperature grades are subject to availability according to IC products. Please consult us.

For more information, please contact:

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