

ComEth4412a – 3U VPX hybrid PCIe and Gigabit Ethernet Switch, aligned with the SOSA™ Technical Standard

Quimper, France, January, 29 2021 - Interface Concept, leader in the design and manufacturing of COTS embedded boards and systems, is introducing the ComEth4412a, a 3U VPX dual plane hybrid PCIe Gen 3 and 40 Gigabit Ethernet Switch, designed in alignment with the SOSA™ (Sensor Open Systems Architecture) technical standard.

This leading-edge hybrid switch combines 2 separate switches: the Expansion/Data Plane Switch supports up to six 4-lane PCI Express Gen 1/2/3 ports with support for Upstream, Downstream and Non-Transparent modes. The Control Plane Switch is a state-of-the-art managed L2+/L3 Ethernet switch capable of supporting up to 12 Ethernet ports operating at 1, 10 or 40 Gigabits per second.

With its non-blocking architecture, the ComEth4412a is ideally suited to handle high-speed and heterogeneous PCI Express and Ethernet data flows in highly integrated Low-SWaP (Size, Weight and Power) systems. The ComEth4412a 3U VPX board has been developed in alignment with the SOSA™ Technical Standard and is compliant with the SOSA/VITA 65.0 switch profile SLT3-SWH-6F8U-14.4.15.

“The ComEth4412a is the next generation of our field-proven ComEth4410a, with enhanced Ethernet and PCI Express performance capabilities, together with new supported functions such as IEEE 1588 PTP. Furthermore, with the ComEth4412a, Interface Concept is excited to complete its product portfolio aligned with the SOSA™ Technical Standard, available to sensor system designers for defense.” said Franck Lefèvre, Interface Concept’s Sales Director.

The ComEth4412a is controlled through an intuitive interface available as a command line (CLI) or graphical user interface (GUI), in addition to SNMP. This interface is running on the on-board management processor and is part of Interface Concept’s feature-rich layer 2/3 switch management stack called “Switchware” which supports various communication protocols.

The ComEth4412a is available in standard, extended and rugged grades in air-cooled and conduction-cooled versions.

INTERFACE CONCEPT is a leader in the design and manufacturing of high-performance embedded board and systems, aimed at ground, naval, air and industrial applications. The company markets Commercial-Off- The- Shelf (COTS) products, based on industrial standards (3U/6U VPX, cPCI, VME, FMC, XMC, PMC) and high-end technologies. Product portfolio includes Gigabit Ethernet switches, Single Board Computers, FPGA processing boards, Analog and digital acquisition mezzanine cards (ADC/DAC), and 2D/3D graphic solutions.

Web page product: [ComEth4412a - 3U VPX dual plane Ethernet Switch | Interface Concept](#)
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