OnTime Networks introduces NEW military rugged 12-port Gigabit Ethernet switch/power board solution for SWaP-C applications

Dallas, TX, October 6, 2015 – OnTime Networks, a global leader for rugged, time synchronized Ethernet solutions for the Aerospace and Defense Industry, announced today the expansion of its military-grade Gigabit Ethernet switch portfolio with the new CloudberryMIL CM-4012FX-SW switch/power board solution.

The NEW CloudberryMIL CM-4012FX-SW 12-port Gigabit Ethernet switch/power board solution, is designed to comply to RTCA-D0-160G and MIL-STD461F/1275E, and features low power consumption of 10W and highly reliable extended-temperature operation up to +71°C.

The unit can be optionally equipped with a 40 pin connector to add four additional ports, expanding the port count to 16 ports. These additional 4 ports can be either SGMII, fiber or copper ports if PHYs are added to the front end board.

"The NEW CloudberryMIL CM-4012FX-SW 12-port switch/power board is particular geared towards customers that are developing military and civilian embedded network systems that are size, weight, power and cost (SWaP-C)-sensitive and require high-reliability in extreme temperature/high-shock/vibration environments." said Øyvind Holmeide CEO of the OnTime Networks group. He continued "In SWaP-C environments a fully rugged box solution may be prohibitive due to the know factors and a board solution is more attractive for customers. With the NEW CloudberryMIL CM-4012FX-SW 12-port switch/power board we provide a solution for ground vehicles, unmanned air systems (UAS) and fixed-or rotary-wing aircraft that require Ethernet connectivity for their on-board devices at a compact size of 115 (W) x 69 (D) x 27(H) mm and a weight of 75g."

Markus Schmitz, Managing Director of OnTime Networks in the U.S. added, "The CM-4012FX-SW switch/power board is loaded with all required firmware, enabling its immediate operation without any development effort. The included web interface provides an intuitive GUI for use in configuring and managing switch functionality. He continued, "Input power can be provided through the built-in, wide-range +16-32VDC power supply, enabling operation using common Aerospace and Defense power sources. Further, in support of information assurance requirements, the card also provides support for a "zerodization" which allows to declassify the product and erase configuration information."

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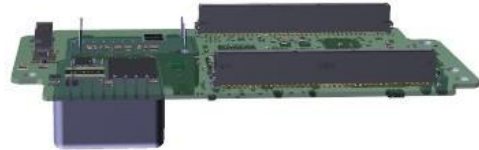6060 North Central Expressway, Suite 500
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About CM-4012FX-SW-MIL Switch/Power Board Solution

The CM-4012FX-SW switch/power board is a ruggedized Gigabit Ethernet (GbE) switch available with 4 to 12 ports as 10/100/1000BASE-T ports through three ERNI board-to-board connectors. The CM-4012FX-SW board also contains a fully rugged DV/DC power supply designed to comply to RTCA-D0-160G and MIL-STD461F/1275E specifically designed to operate reliably in the harsh climatically and noisy electrical demanding environments (e.g. high altitude, extended temperatures, noisy EMI, dirty power) of airborne and military applications.

The CM-4012FX-SW switch/power board is an advanced and highly engineered Commercial off the Shelf (COTS) Gigabit Ethernet (GbE) switch with built-in Ethernet PHYs that addresses complexity, enable modularity and provides growth, while delivering optimal performance for Space, Weight, Power and Cost (SWaP-C) constrained airborne and military applications.

This fully managed, Layer 2+ Gigabit switch provides a powerful set of networking features, including support for IPv4 multicast traffic filtering according to static filters or IGMP snooping, Virtual Local Area Networks (VLANs), port control (speed / mode / statistics, flow control), Quality of Service (QoS) traffic prioritization, Link Aggregation (802.3ad), SNMPv/1/v2/v3 management, secure authentication (802.1X, ACLs, Web/CLI), redundancy (RSTP/MSTP) and port mirroring. The switch also supports Transparent Clock operation according to IEEE 1588 Std 2008 (PTPv2).

28VDC power input is available through a 12 pin ERNI connector and up to 12 x 10/100/1000BASE-T ports are available via two 80pin ERNI connectors. Also LED, reset and RS232 signals are available via the ERNI connectors.

A custom designed front-end board only containing three female ERNI connectors for power, Ethernet magnetics and chosen connectors relevant for the given application is required in order to build a final switch product.

About OnTime Networks

OnTime Networks is a technology leader for rugged, time synchronized, fully managed, modular Gigabit Ethernet switches, specifically designed to operate reliably in the harsh and climatically demanding environments of the Aerospace and Defense Industry. Recognized for innovation and excellence, OnTime focuses on precise time over Ethernet according to IEEE 1588 (PTP) as core technology. For more information, please visit www.ontimenet.com.