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 CM-6200 SERIES

OnTime Networks Launches NEW Rugged Military Ethernet Router and Switch, with Cisco 5921 Advance Protocol Package and Time Server capability (IEEE 1588 PTP, NTP, IRIG, 1PPS)

Dallas, TX January 18, 2017 – OnTime Networks, a global leader for rugged, time synchronized Ethernet solutions for the aerospace and defense industries, announces the expansion of its military-grade gigabit Ethernet switch and router portfolio with the new CloudberryMIL CR-6200 Series.

The new Cloudberry CR-6200 Series is a commercial off the shelf (COTS), fully managed Layer 2/3 Ethernet switch with an embedded Cisco 5921 Embedded Services Router (ESR) IOS and network time server capability (IEEE 1588 PTP, NTP, IRIG, 1PPS), in an ultra-rugged housing. It is specifically designed to provide reliable, high-performance connectivity for extremely demanding size, weight and power (SWaP) constraints in harsh



demanding environments (e.g. high altitude, extreme shock & vibration, extended temperatures, humidity, dust & water exposure, noisy EMI, dirty power).

The CR-6200 is an ideal solution for forward-fit and retrofit applications. It provides a technology advantage for deploying data, video and voice services virtually anywhere LAN/WAN connectivity may be required, especially in mobile, airborne, ground, manned or unmanned vehicle and sensor applications. With routing speeds of up to 200 mbps for the Cisco 5921 ESR package or full wire speeds for OnTime Networks' own router package, the unit offers a powerful network solution.

With up to 24 gigabit Ethernet and four 10 gigabit Ethernet ports, the CR-6200 provides a robust network routing architecture with the performance, security, quality of service (QoS), high availability and manageability that customers expect from Cisco IOS-based technologies. The familiar Cisco IOS router software and the Cisco-like CLI interface on the switch management side minimize training requirements and provide extensive support for IPv4/IPv6 routing protocols, IP multicasting, Radio Aware Routing (RAR), Dynamic Link Exchange Protocol (DLEP), remote VoIP, Firewall/IPS/IDS, Mobile Ad Hoc Networking (MANET) and Mobile IP routing for connectivity in Comms on the Move (COTM) applications.

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Its modular rugged design, enclosed in a completely sealed housing against dust and water ingress (IP68), requires no active cooling and provides a number of connector options (ceelok FAS-T, MIL-DTL-38999, MightyMouse). The unit features a military-grade power supply for aircraft (MIL-STD-704F) and ground (MIL-STD-1275D) vehicle use, as well as MIL-STD-461F EMI/EMC filtering.

Markus Schmitz, Managing Director of OnTime Networks in the U.S., stated "The NEW CloudberryMIL CR-6200 Series high-performance switch/router platform has been designed from the ground up to perform in the harshest environments providing reliable connectivity for land, air and sea platforms. The CR-6200 MIL Series delivers either the Cisco 5921 ESR IOS or OnTime Networks router package with up to 24 1GbE ports and 4 10GbE ports. Therefore, the CR-6200 provides the right mix of performance and scalability to meet the requirements of today's Aerospace and Defense platforms.

Pål-Jørgen Kylesø, CTO of OnTime Networks further commented, "In addition to the routing and switching capabilities, the CM-6200 is a high performance network time server with both IEEE1588-2002/2008 and NTP support."

About CR-6200-MIL Series

OnTime Networks' CloudberryMIL CR-6200-MIL Series is a rugged fully managed Layer 2/3 Ethernet Switch, with embedded Cisco 5921 Embedded Services Router (ESR) IOS, in an ultra-rugged housing, specifically designed to reliably provide high-performance connectivity for extremely demanding size, weight and power (SWaP) constraints, in harsh demanding environments (e.g. high altitude, extreme shock & vibration, extended temperatures, humidity, dust & water exposure, noisy EMI, dirty power). The unit is designed to meet the environmental requirements of MIL-STD 810G and the EMI/EMC requirements (Conducted & Radiated Emissions & Susceptibility) of MIL-STD 461F, 704E and 1275.

Further, the CR-6200-MIL is a reliable and accurate PTP Grand Master Clock (GMC) or Transparent Clock/Slave Clock (TC/SC). Both PTPv1 and PTPv2 Slave clocks can co-exist in the same network by using the PTP version translator feature of the CR-6200-MIL platform. The router can also provide GPS emulation output both when enabled as a GMC and when operating as a TC/SC. GPS emulation means Pulse Per Second (PPS) output signals via GPO pins in the power connector (TTL) and NMEA telegrams via RS232 in the same connector. An IRIG-B002 output (TTL) signal can be provided via GPO pins in the power connector.

This fully managed, Layer 2/3 Gigabit router/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

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(802.3ad), SNMP v1/v2/v3 management, secure authentication (802.1X, ACLs, Web/CLI), redundancy (RSTP/MSTP) and port mirroring.

28VDC redundant power input with polarity protection and power hold-up (option) support is available through the 10 pin ITT Cannon MKJ3 power connector. 8-12 Ethernet 10/100/1000BASE-T(x) copper ports are available through the 8-12 Ceelok FAS-T connectors and 0-4 1000BASE-X fiber ports are available through ARINC801 optical termini in circular MIL-DTL-38999 connectors.

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.

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