



CLOUDBERRYMIL

CM-6900 SERIES

**OnTime Networks selected by Diehl Defence GmbH & Co. KG to provide military CR-6900 Series Gigabit Ethernet Switch, Router and GPS Time Server solutions for Mobile Ground Based Air Defense System (GBAD)**

**Oslo, Norway, September 19, 2019** – OnTime Networks, a global leader for rugged, time synchronized Ethernet solutions for the aerospace and defense industries, today announced the selection by Diehl Defence GmbH & Co. KG to provide its military-grade, commercial-off-the-shelf (COTS), CloudberryMIL CR-6900 Series Gigabit Ethernet Switch and Router solution for a mobile and all-terrain ground based air defense system (GBAD).

The Diehl Defence ground based air defense system is based on a modular design and open-system architecture, providing maximum flexibility for new weapon systems as well as for modernization of legacy equipment.

The CloudberryMIL CR-6900 Series Gigabit Ethernet Switch, Router and GPS Time Server solution stands up to the harsh environmental conditions and will be at the heart of the new air defense solution, which will be deployed on fixed and mobile ground platforms.

Pål-Jørgen Kyllesø, CTO of OnTime Networks, stated "The CloudberryMIL CR-6900 Series high-performance Gigabit Ethernet Switch, Router and GPS Time Server platform has been designed from the ground up to perform in the harshest environments providing reliable connectivity for land, air and sea platforms. With up to 48 GbE ports and 4 10GbE ports, the CR-6900 provides the right mix of performance and scalability to meet the requirements of today's Aerospace and Defense platforms.

"OnTime Networks has unique expertise in high speed, time synchronized networking solutions, as well as an extensive history of supplying rugged systems to the demanding military and aerospace industries," said Markus Schmitz of OnTime Networks. "Our rugged solutions range from embedded products based on 3U VPX or custom board solutions, to high-end, rugged systems as the CR-6900 Switch, Router and GPS Time Server Series." He continued, "Today's military and aerospace networking solutions need to be innovative and highly reliable, all while operating in the most challenging environments. OnTime Networks' proven track record of reliability in mission-critical applications was one reason for the selection by Diehl Defence GmbH & Co. KG."

**About CR-6900-MIL Series**



The Cloudberry CR-6900 19" 1U Series is a commercial-off-the-shelf (COTS), fully managed Layer 2/3 Ethernet switch with an embedded Router and GPS time server capability (IEEE 1588 PTP, NTP, IRIG, 1PPS, 10MHz), in a rugged housing. It is specifically designed to provide reliable,

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high-performance connectivity for extremely demanding size, weight and power (SWaP) constraints in harsh demanding environments (e.g. high altitude, extreme shock and vibration, extended extreme temperatures, humidity, noisy EMI, dirty power).

The CR-6900 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 up to 48 gigabit Ethernet and four 10 gigabit Ethernet ports, the CR-6900 provides a robust network routing architecture with the performance, security, quality of service (QoS), high availability and manageability that customers expect from advanced routing technologies. Its modular design, enclosed in a rugged 19" 1U housing, requires no active cooling and will provide a number of connector options (RJ-45 and 38999). 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.

Further, the CR-6900-MIL is a reliable and accurate PTP Grand Master Clock (GMC) or Transparent Clock/Slave Clock (TC/SC) fulfilling IEEE 1588 STD 2002 (v1) and IEEE 1588 STD 2008 (v2). Both PTPv1 and PTPv2 Slave clocks can coexist in the same network by using the PTP version translator feature of the CR-6900-MIL platform. The switch can also act as a NTP Network Time Server (NTS) and provide GPS emulation output both when enabled as a GMC and when operating as a TC/SC. GPS emulation (Pulse Per Second (PPS) output signals via dedicated connectors (TTL) as well as NMEA telegrams) via the network connection or RS232. Further, the unit can distribute multiple IRIG-B (AM/DC) and 10MHz outputs via dedicated connectors on the front of the unit.

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

The unit provides different power supply options from 115VAC to a dual power supply option featuring 115VAC and 28VDC input, with polarity protection and DC power hold-up (option) support is available as well.

#### 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

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according to IEEE 1588 (PTP) as core technology. For more information, please visit [www.ontimenet.com](http://www.ontimenet.com).

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