

See GarrettCom at DistribuTECH 2011, booth 627

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GARRETTCOM INTRODUCES NEXT-GENERATION MANAGED SWITCH FAMILY OPTIMIZED FOR SMART GRID INITIATIVES IN POWER UTILITY SUBSTATIONS

January 11, 2011, Fremont, Calif. – GarrettCom[®], Inc. is rolling out the next generation of IEC 61850-compatible, substation-hardened managed switches targeted for power utility applications. The Magnum 10KT Managed Switches will first be demonstrated at DistribuTECH 2011 in San Diego, Calif., Feb. 1-3, in booth 627.

The new Magnum[™] 10KT Managed Switches include industry-leading sub-10-nanosecond timing precision for utility applications, the first dual hot-swappable power supplies in a 1U rack-mount switch, and up to 36 ports which can be configured to meet the needs of each installation – including up to four Gb ports. The 10KT Managed Switches come in a substation-hardened enclosure utilizing new patent-pending advanced thermal design techniques that allow the switches to run cooler and more efficiently. The switches come with an enhanced version of the field-proven Magnum MNS 6K software with robust security features built-in.

FEATURES

Magnum 10KT switches provide the bandwidth, precision and hardening required for optimization of smart grid initiatives in substation environments today.

Precision timing using IEEE 1588

The 10KT switches offer unmatched time synchronization based on the IEEE 1588v2 protocol to provide the sub-microsecond timing accuracy required in substation applications. Tests have demonstrated that GarrettCom's patent-pending hardware/software design supports a mean synchronization time accuracy of less than 10 nanoseconds. The 1588v2 timing features supported include master clock, boundary clock, and transparent clock. The timing accuracy exceeds the requirements of "next generation" 61850-3 specifications, enabling complex Smart Grid substation networks to perform in harsh environments as technology continues to evolve.

Highly configurable with up to 36 ports, including up to four Gb ports

Magnum 10KT configurations provide 10 slots for combinations of port types and support up to 36 100Mb fiber and copper ports, four of which may be Gigabit. By providing high port density, the 10KT provides the connectivity necessary in today's more IP-intensive substations and reduces the potential points of failure in a substation communications system.

The industry's first dual hot-swappable power supplies in a 1U rack-mount switch

With both a backup power supply and hot swappable replacements, the Magnum 10KT offers the highest level of reliability available in substation-hardened switches today. Power supplies are available with multiple voltage options including 90-250V AC-DC, 125VDC, 48VDC, 24VDC, and universal AC.

GarrettCom has been an industry innovator in efficient convection cooling and brings that expertise to bear in the 10KT Switch packaging. The enhanced version of GarrettCom's field-proven MNS-6K and MNS-6K-SECURE Managed Software complements the next-generation capabilities of these switches, including software support of 1588 v2 timing protocols as well as security features including VLANs, SSL/SSH, Radius, and TACACS+.

For a high-resolution photo image of the GarrettCom Magnum 10KT, visit http://www.garrettcom.com/images/10KT_300.jpg. To access a data sheet on the Magnum 10KT, visit <http://garrettcom.com/techsupport/hardware/datasheets/10ktds.pdf>.

About GarrettCom

[GarrettCom, Inc.](#), Fremont, Calif., is a leading provider of industrial networking products for specialty and stressed applications with business locations in North America, Europe and India. GarrettCom specializes in mission-critical, customizable, and durable products for extreme conditions. It premium offers industrial and substation-hardened networking products such as managed or unmanaged switches, multi-protocol routers, Ethernet™ and serial media converters, terminal servers, and serial communications. GarrettCom also offers software capabilities in the areas of cyber security, physical security, and fault-tolerance for high-availability industrial networking solutions. The company has diversified sales channels with a premier customer base, including 75percent of the top 100 power utilities in North America and top-tier industrial system integrators worldwide. GarrettCom is a wholly-owned subsidiary of Belden®, Inc.

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