

Press Release

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Belden Expands its Hirschmann™ Product Portfolio with a New Media Module for Switches of the MICE Family: Synchronization Accuracy in the Nanoseconds Range

The new media module supports the Precision Time Protocol (PTP) according to IEEE 1588 V2 and offers a synchronization accuracy of less than 80 nanoseconds even in large, cascaded networks.

In addition, the module can also be equipped with an electrical port and an optical transceiver, permitting the connection of other networking components or field devices using twisted-pair cables as well as multi-mode or single mode fibers. The new media module is ideally suitable for use in any data network requiring extremely high real-time capability, such as in measuring technology or drive control. With a software update, available for download free of charge at www.hirschmann-ac.com, the module can also be used in switches of the MS 20/30 series.

The media module has an MTBF (Mean Time Between Failures) value of 28.1 years, is designed for an operating temperature range of -10 to +60 °C, and can be commissioned by plug-and-play. A hot swap function also permits live replacement during operation, if required. Operating parameters are displayed by an array of LEDs on the front panel. Large label fields are available for customized designation of each module as well as clear allocation of ports.

Specially designed for operation in rugged industrial environments, the MICE family of Hirschmann™ switches consists of a switch unit with an integrated back

plane that can be equipped with various different media modules. They support Fast and Gigabit Ethernet as well as numerous routing, redundancy and security modes. Passive cooling (no fans) and a redundant 24VDC power supply add to ensure high operational safety. Since the switches can be mounted on standard top-hat rails, they have a perfect fit both in central control cabinets and in peripheral distribution boxes. The new media module provides two RJ45 (10/100/1000 BASE-TX) or two SFP fiber optical transceiver (1000 BASE SX/LX).

PTP V2 has once again clearly raised the synchronization accuracy over its predecessor version. “Above all, this results from the Transparent Clock function introduced in addition to Boundary Clock and Ordinary Clock, which now also permits end-to-end synchronization,” explains Product Manager Pascal Unterdorfer. „This means that virtually all runtime jitter and latency can be compensated in the switches, achieving maximum synchronization accuracy even in very large networks.”



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(Photo: Belden, BLD-HM PR132)]

About Belden

Belden designs, manufactures and markets signal transmission solutions, including cables, connectors and I/O modules as well as network devices and control, load sensing and load moment limitation systems designed for safety-critical applications ranging from industrial automation to data centers, broadcast studios and the aviation and aerospace industry. The company focuses on segments of the worldwide cable and automation markets that require both highly specialized and readily available products. With manufacturing facilities in North America, Europe and Asia, Belden has recorded a total revenue of USD 2 billion for the fiscal year 2008.

Together with its brands Hirschmann™ and Lumberg Automation™, Belden offers an extensive and highly specialized product portfolio covering the full range of data communications – from the information and control levels down to the field level. The company has more than 15 offices throughout Europe, the Middle East and Africa, with manufacturing facilities in Czech Republic, Germany, the Netherlands, UK, Denmark, Italy and Hungary.

For more information about Belden, please visit www.belden-emea.com.

For further information, please contact:

Nancy van Heesewijk	Berry Medendorp
EMG	Belden
Lelyweg 6	E-mail: berry.medendorp@belden.com
4612 PS Bergen op Zoom	
The Netherlands	
Tel.: +31 164 317 018	
Fax: +31 164 317 039	
E-mail: nvanheesewijk@emg.nl	
www.emg.nl	

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Alternatively for very high resolution pictures please contact Nancy van Heesewijk (nvanheesewijk@emg.nl , +31 164 317 018).