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Canare Debuts 3G-SDI Optical Converters And Compact CWDM Transmission Systems At NAB 2013

New optical products eliminate the distance, weight, attenuation and RFI noise challenges of running conventional cable over long distances.

Las Vegas, Nevada, April 8, 2013 – Canare, the leading manufacturer of the highest quality pro audio and video cables and cable reels; connectors, patchbays, snake systems, assemblies and tools for the broadcast, media and entertainment markets, will debut their new line of 3G-SDI capable optical converter modules, compact CWDM transmission systems and HDMI products at this year's NAB show, in the Las Vegas Convention Center in booth C10421.

The newly developed optical converter modules and compact CWDM (Coarse Wave Division Multiplexing) systems address the distance, weight, attenuation and RFI noise challenges of running conventional cable over long distances. The products and systems are ideal for live event and stage venues needing compact and robust transmission of signals ranging from NTSC/PAL to 3G-SDI (1080p).

E03G-100/OE3G-101 Converter Modules

The new E03G-100 and OE3G-101 are multi-rate, multi-format 3G-SDI/HD-SDI/SD-SDI capable Electrical-to-Optical and Optical-to-Electrical converter modules, respectively. The converters are ideal for applications that require the signal quality and integrity to be at its best over long distances such as in dark fiber environments and the optical transmission within or between broadcast facilities.

The RoHS compliant modules are the latest additions to the expansive line of digital video/audio, analog video, Ethernet and control converters that can plug into the Canare 161UPSC (1RU, 16 slot) and 6PSC (1RU, six slot) optical converter platforms. Both modules consume very little power and support the SMPTE 259M, 292M, 297-2006 and 424M standards, and can easily send and receive 1080p signals more than 100m using the appropriate coax cable, such as the Canare L-5CFB. Jitter reduction and optimal signal integrity over long distances are further improved with the integral cable equalizer and re-clocker equipped E03G-100 and re-clocker and cable driver equipped OE3G-101 converter modules.

CWDM Transmission Systems

Canare will also be demonstrating its newest additions to its CWDM (Coarse Wave Division Multiplexing) system solutions. The solutions are ideal for live stage and sports event venues where there's a need to reduce equipment count, cable weight and the number of cables; signal attenuation over long distances and not having to prepare metal cable assemblies beforehand. Each system offers a modular platform to accept different conversion modules to perform specific tasks, whether it be to convert and transmit analog video, AES-EBU audio or HD-SDI signals as well as controlling peripheral RS-232/422 systems. Additionally, the discrete platforms can be combined and replicated into several locations (ENG/OB van, stationary and roving camera crews) to create any number of application specific tasks, such as covering a national golf tournament like the Masters in Augusta. The demonstrations will consist of three systems which are the following:

161UPSC based System:

Components

Case : 2U standard case
 Power : 161UPSC (16 slot converter platform with power supply)
 HD-SDI : EO-100A-** x 4 (CWDM SD-HD-SDI/DVB-ASI with embedded audio)
 : OE-101B x 4 (CWDM SD-HD-SDI/DVB-ASI with embedded audio)
 LAN : TRM-210A-**x 2: (100BASE-TX)
 RS-422 : TRM 220A-** (Extends control of RS-422/RS-232 up to 34km)
 VBS : EO-700A-** (NTSC/PAL Electrical-to-Optical up to 45km)
 : OE-70 (NTSC/PAL Optical-to-Electrical up to 45km)
 XLR5 : Aux (Aux audio)
 External Connection: Custom Made CWDM-BOX: (Camera Connectors included)

6PSC based System:

Components

Case : 1U standard case)
 Power : 6PSC (6 slot converter platform with power supply)
 HD-SDI : EO-100B or OE-101B (HD-SDI Electrical-to-Optical or
 Optical-to-Electrical with embedded audio)
 Controller : TRM-220 or TRM-221(RS-232/RS-422 control)

10PSA based System:

Components

Case : 3U half size
 Power : 10PSA (10 slot converter platform with power supply)
 HD-SDI : EO-100A-**x 4 (CWDM SD-HD-SDI/DVB-ASI with embedded audio)
 : OE-101B x 4 (CWDM SD-HD-SDI/DVB-ASI with embedded audio)
 VBS : EO-700A-** (NTSC/PAL Electrical-to-Optical up to 45km)
 : OE-701 (NTSC/PAL Optical-to-Electrical up to 45km)

XLR3 x2 : Aux (Aux audio)

External Connection: Custom Made CWDM-BOX: (Camera Connectors included)

Active HDMI Cable and HDE-100 Extender:

Canare will also have on display their new line of active HDMI cables and HDE-100 HD-BaseT Extender.

The newly developed active HDMI cables incorporate an active equalizer within the body of the cable connector housing, allowing for stable HDMI signal transmission of up to 15m. The products come in three lengths, which are: HDM07E-EQ (7m); HDM10E-EQ (10m) and HDM15E-EQ (15m).

If there's a requirement to extend HDMI signals such as in remote viewing venues and facility installations, the HDE-100 HD-BaseT extender is the perfect companion, and can safely transmit signals up to 100m using an HDMI LAN cable – Cat. 5e/6. The extender supports 1080p @ 60Hz, 3D, 2k x 4K resolutions, as well as HDCP (High-Bandwidth Digital Content Protection).

“The introduction of our new line of optical conversion products and systems, as well as our new line of active HDMI cables and extender reinforces our commitment to providing innovative solutions to helping the broadcast and video communities more efficiently utilize their equipment, while creating an environment for higher return-on-investment,” said Jun-Ichiro Ohno, CEO and president, Canare Corporation of America. “These solutions are a by-product of our active engagement with our customer and reseller base in helping them to do better, affording us the continuing opportunity to provide the best-in-class interconnect solutions to our continually growing multi-national clientele.”

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About Canare

Founded in 1970 in Nagoya, Japan, Canare is known around the world for manufacturing the best in Pro Audio and Video Cable; 75 Ohm BNC, F and RCA Connectors; Patchbays; Cable Reels; Snake Systems; Assemblies; Crimp Tools and Cable Strippers. In 2004, Canare launched a full Optical Product Line for HD upgrades in the broadcast and M&E markets. Professional broadcast engineers, sound technicians, A/V facility integrators, design consultants and many leading OEM's rely on Canare's products, proven reliability and best-of-class customer service. For more information about Canare, call (973) 837-0070 or visit us at www.canare.com.