

HD-4400 SERIES

4 Channel 3G HDSDI Fiber Optic
Transport Card for openGear



Preliminary

SUMMARY

- Transport of up to 4 Channels of 5 Mbps to 3 Gbps HDTV signals over 4 fibers.
- Supports the openGear standard.
- Support for the 10 card DFR-8310 and 20 cards DFR-8320 openGear frames.
- 40 channel signal density of 3G HD SDI in 2 RU.
- 4x4 matrix on both the transmitter and receiver to cross connect any of the four input and output channels.
- Supports the 3G HD-SDI SMPTE 424M, SMPTE 292M 1.485 Gbps and the SMPTE 259M 270 Mbps standards with operation from 5 Mbps - 3 Gbps.
- Supports the SMPTE 310M 19.4Mbps, M2S or DVB-ASI 270Mbps, SMPTE 344M 540Mbps and SMPTE 305M SDTi rates.
- Transmitter card supports 4 BNC HD-SDI equalized inputs with re-clocking.
- Receiver card supports 4 BNC HD-SDI outputs with re-clocking.
- Supports embedded audio and data. Audio and data must be embedded separately.
- Other models include: HD-4300, triple 3G HD-SDI option with a 3x3 switch for openGear, the HD-4200 dual 3G-HD-SDI with a 2x2 switch for openGear and a HD-4100 single 3G HD-SDI model with one 3G HD-SDI channel and no switch or protection switching.

This high density, multirate, 3G HD-SDI SMPTE fiber optic transport system with a 4x4 matrix on both the transmitter and receiver is one of the first products MultiDyne has designed as part of its participation in the openGear terminal equipment platform group.

Founded by Ross Video, the openGear platform is based on an open architecture, 2RU modular frame designed to accommodate up to 10 cards in the DFR-8310 frame and up to 20 cards in the DFR-8320 frame. The HD-4400 will give customers another option for fiber optic transport without the need to invest in multiple frame standards.

Ideal for high-capacity fiber trunking of 3G HD-SDI signals in a broadcast facility, the HD-4400 transmitter card accepts four multi-rate HD-SDI electrical signals with speeds of 5 Mb to 3 Gb per second as inputs. These inputs are equalized, re-clocked and converted to four optical outputs. The receiver card accepts four fiber optic inputs and converts them to four fiber optic electrical outputs, which are re-clocked and line buffered. Both the transmitter and receiver cards include a 4x4 matrix switcher to cross connect any of the four input and output channels.

The HD-4400's 4x4 switching and cross-connect feature provides 3G HD signal routing and automatic redundancy capability. The system can also transport four redundant 3G HD-SDI feeds with automatic protection switching, supporting SDI, HD-SDI, 3G HD-SDI, DVB, ASI and SMPTE standards 424M, 292M, 259M and 310M.

Several model variations of the HD-4400 will also be available from MultiDyne, providing a variety of fiber transport and switching options for customers including the HD-4300, triple 3G HD-SDI option with a 3x3 switch for openGear, the HD-4200 dual 3G-HD-SDI with a 2x2 switch for openGear and a HD-4100 single 3G HD-SDI model with one 3G HD-SDI channel and no switch or protection switching.

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