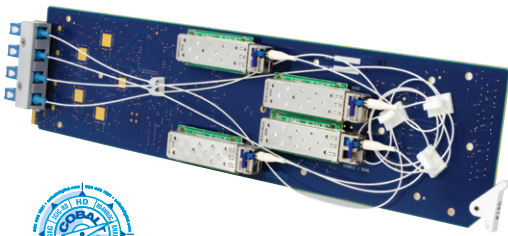


9400 SERIES

SDI/Fiber Multi-Channel Transports

with I/O Crosspoints



The 9400-series SDI/Fiber transport cards provide a card-based solution for high-density distribution and multiplexing between discrete SDI signals and fiber buses. Utilizing the openGear® open-architecture platform, the 9400-series offers scalable incorporation and the easy-to use Dashboard™ setup and control operator interface.

The 9400-series cards offer I/O crosspoints, allowing easy to configure and flexible routing between card inputs and outputs. Up to 10 of any 9400-series cards can be installed in our 20-Slot frame, offering support for up to 40 BNC input/outputs and 40 fiber input/outputs in a single frame. In addition to SD/HD-SDI support, the cards support a wide range of signals/standards from 5 Mb/s to 3Gb/s. The scalability of the 9400-series offers a high degree of flexibility and density, maximizing economy of both space and costs. Full user remote and card-edge monitor/control allows full card status and control access locally or across a standard Ethernet network.

BNC - TO - FIBER TX	
9401	4 BNC In x 1 Fiber Out; 4x1 Crosspoint
9402	4 BNC In x 2 Fiber Out; 4x2 Crosspoint
9403	4 BNC In x 3 Fiber Out; 4x3 Crosspoint
9404	4 BNC In x 4 Fiber Out; 4x4 Crosspoint

FIBER - TO - BNC RX	
9411	1 Fiber In x 4 BNC Out; 1x4 Crosspoint
9412	2 Fiber In x 4 BNC Out; 2x4 Crosspoint
9413	3 Fiber In x 4 BNC Out; 3x4 Crosspoint
9414	4 Fiber In x 4 BNC Out; 4x4 Crosspoint

FEATURES

Card-based design allows scalability with up to 40 BNC/Fiber interfaces per frame

Low power/high-density design; only 10 Watts max. per card

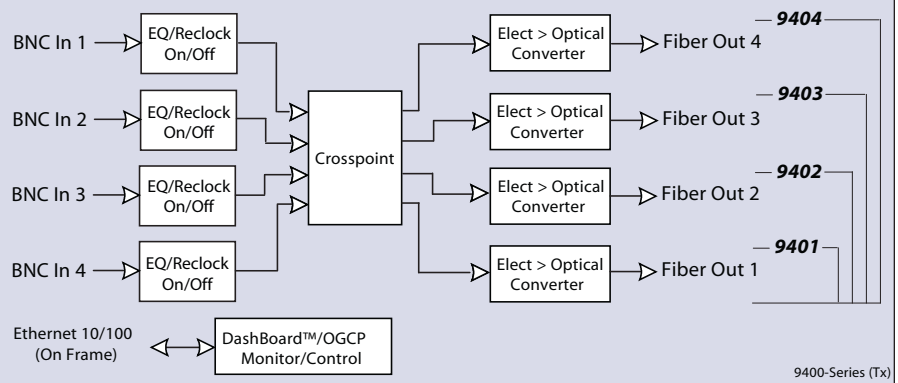
Full support of SMPTE 424M, 292M, 259M and SMPTE 310M, SMPTE 344M, SMPTE 305M, M2S, and DVB-ASI standards/formats

I/O crosspoints on all models allow selectable and flexible crosspoint distribution and DA functions on same card

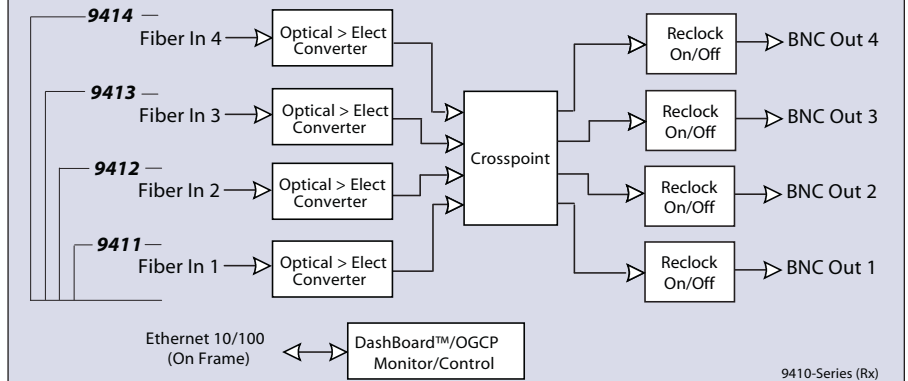
Remote control/monitoring via Dashboard™ software, with soft-configurable crosspoint, EQ on/off, and relock on/off.

Five year warranty

9400-Series BNC-To-Fiber Transmitters

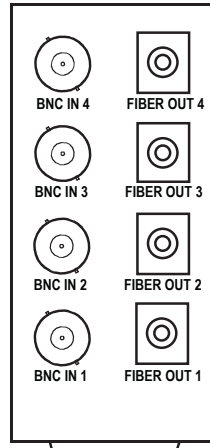


9410-Series Fiber-To-BNC Receivers



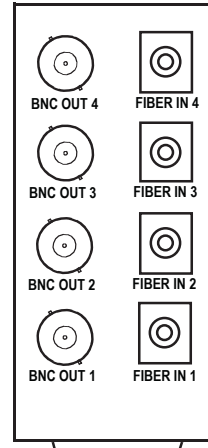
9400 SERIES

Rear Module Options



Note: FIBER OUT 4, 3, and 2 positions progressively depopulated on models 9403, 9402, and 9401, respectively.

RM20-9400-B



Note: FIBER IN 4, 3, and 2 positions progressively depopulated on models 9413, 9412, and 9411, respectively.

RM20-9410-B

SPECIFICATIONS

Electrical

Power: 10 watts (max)

General

Tx/Rx Fiber Range Single-Mode optics; rates thru SD: 40 km (24.8 mi) max
Single-Mode optics; rates thru HD: 24 km (14.9 mi) max

Fiber Connector: LC, ST, SC, or FC

Standards: SMPTE 259M-C, SMPTE 292M, SMPTE 425M, SMPTE 297M, DVB/ASI, HD-SDI (SMPTE 292M), SD-SDI (SMPTE 259M) with EDH

9400-Series (Tx)

Input Type: BNC, 75Ω

Input/Output Loop Return Loss:
>15 dB up to 1.5 GHz
>10 dB up to 3 GHz

Transmitter Wavelength: 1310 nm Single Mode

Optical Power: -5 dBm to 0 dBm

Laser Power Range: Laser Class 1

Added Jitter: <0.03 UI under 1 MHz

9410-Series (Rx)

Input Type: Fiber LC, ST, SC, or FC

Wavelength: 1100 to 1600nm

Optical Sensitivity: Pathological 3Gbps: -18 dBm
Pathological HD-SDI: -20 dBm

Output Type: BNC, 75Ω

Output Return Loss: >15 dB up to 1.5 GHz
>10 dB up to 3 GHz

Added Jitter: <0.03 UI under 1 MHz

ORDERING INFORMATION

9401 4 In / 1 Out BNC-to-Fiber Transmitter / Crosspoint Card

9402 4 In / 2 Out BNC-to-Fiber Transmitter / Crosspoint Card

9403 4 In / 3 Out BNC-to-Fiber Transmitter / Crosspoint Card

9404 4 In / 4 Out BNC-to-Fiber Transmitter / Crosspoint Card

9411 1 In / 4 Out Fiber-to-BNC Receiver / Crosspoint Card

9412 2 In / 4 Out Fiber-to-BNC Receiver / Crosspoint Card

9413 3 In / 4 Out Fiber-to-BNC Receiver / Crosspoint Card

9414 4 In / 4 Out Fiber-to-BNC Receiver / Crosspoint Card

RM20-9404-B 20-Slot Frame Rear I/O Module (Standard Width) 4 BNC In, 4 Fiber Out

RM20-9403-B 20-Slot Frame Rear I/O Module (Standard Width) 4 BNC In, 3 Fiber Out

RM20-9402-B 20-Slot Frame Rear I/O Module (Standard Width) 4 BNC In, 2 Fiber Out

RM20-9401-B 20-Slot Frame Rear I/O Module (Standard Width) 4 BNC In, 1 Fiber Out

RM20-9414-B 20-Slot Frame Rear I/O Module (Standard Width) 4 Fiber In, 4 BNC Out

RM20-9413-B 20-Slot Frame Rear I/O Module (Standard Width) 3 Fiber In, 4 BNC Out

RM20-9412-B 20-Slot Frame Rear I/O Module (Standard Width) 2 Fiber In, 4 BNC Out

RM20-9411-B 20-Slot Frame Rear I/O Module (Standard Width) 1 Fiber In, 4 BNC Out

Note: Add fiber connector suffix to part numbers above to specify fiber connection type (LC, ST, SC, FC). (For example, RM20-9404-B fitted with LC connectors is ordered as "RM20-9404-B-LC".)