

DVD 5480 TO

12G / 3G / HD

fiber 12G SERIES 5000

CardModules

Dual Channel 12G SDI Distribution Amplifier with Single Link to Quad Link (2SI) Conversion And Optical Interfaces

Description

The DVD 5480 TO module is a high performance dual channel 12Gbit/s SDI distribution amplifier with optical interfaces and Single Link to Quad Link (2SI) conversion. This module can be used as a single 1>8 or a dual channel 1>4 device. DVD 5480 TO is ideally suited for demanding high quality broadcast and professional video applications.

In DVD 5480 TO module, the two fiber input ports provided can be switched by the user individually to the internal channels. Each internal channel has a switchable single Link to quad Link (2SI) converter, which can be set to bypass. In bypass mode, the module acts as an optical distribution amplifier.

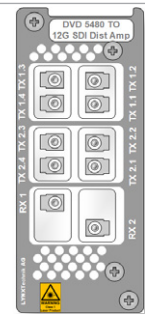
In "demux" mode, the module will act as a demultiplexer in which the 12G SDI signal on input ports will be demultiplexed into 2SI quad link signal.

The LYNX APPolo Control system provides remote control, status monitoring and error reporting for the module.

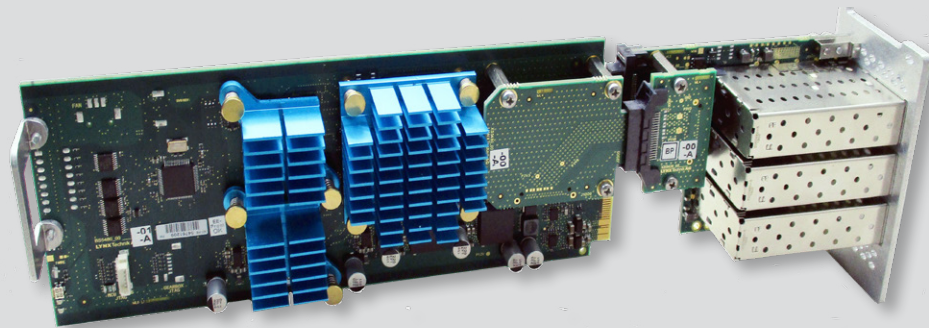
Note: A maximum of 8 DVD 5480 TO cards can be installed in RFR 5018 rack frame. It CANNOT be fitted into slot 1 or 2 as it would block the RFR internal cross flow fan at the rear.

Features

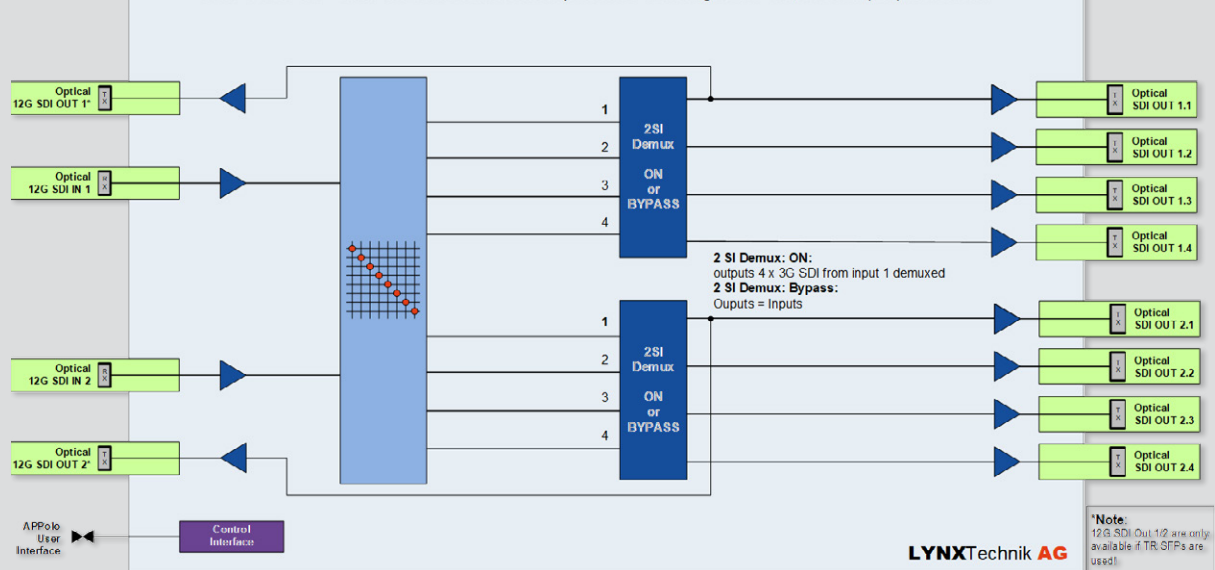
- Supports 12Gbit/s on Optical inputs and outputs
- Auto-detect input video standard
- Dual Channel (2 x 1>4) or Single Channel (1>8) distribution amplifier
- 12G SDI input signals can be demultiplexed to quad link (2SI, 4x3G SDI)
- Input presence detection with LED indication
- Microprocessor controlled with internal flash ram for storing configuration
- Remote control, status monitoring and error reporting when used with Lynx APPolo control system
- Hot Swappable



Backplane



DVD 5480 TO – Dual 12G SDI Distribution Amplifier with 12G Single Link to Quad Link (2SI) conversion



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Note:
12G SDI Out 1,2 are only
available if TR SFPs are
used!

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Broadcast Television Equipment

Distribution

DISTRIBUTION DVD 5480 TO

Dual Channel 12G SDI Distribution Amplifier with Single Link to Quad Link (2SI) Conversion And Optical Interfaces

Specifications

| Video Input | |
|---------------------------|---|
| Signal type | SMPTE 297M-2006 SMPTE 292M, 424M, 259M, 2082-1 |
| Supported formats | SDI formats up to 12Gbit/s* (see table) |
| No. of inputs | 2 x Single Receiver (OH-RX-12G-LC) |
| Connector | LC/PC (single mode) |
| Wavelength | 1260nm – 1620nm (-14dBm sensitivity) |
| Video Outputs | |
| Signal Type | SMPTE 297M-2006 SMPTE 292M, 424M, 259M, 2082-1 |
| No. of outputs | 8 → 4 x Dual Transmitter (OH-TT-12G-LC) |
| Output format | Follows input format |
| Connector | LC/PC (single mode transmit/receive – duplex connection) |
| Wavelength | Standard: 1310nm (non-CWDM) |
| Transmission power | Standard: 1310nm (non-CWDM): -5dBm typ. |
| Performance | |
| 2SI Demux | Two Converters for Single Link to Quad Link (2SI) Conversion can be activated |
| Electrical Specifications | |
| Operating voltage | 12 VDC |
| Power consumption | 17W including optional Fiber SFPs |
| Safety | IEC 60950/ EN 60950/VDE 0805 |
| Mechanical | |
| Size | 283mm x 78mm |
| Weight | Card/Module 120g, connector plate 100g |
| Ambient* | |
| Temperature | 5°C to 40°C (41°F - 104°F) maintaining specifications |
| Humidity | 90% maximum, non-condensing |

*It is strongly recommended to operate DVD 5480 TO in a Series 5000 Rack with front panel fans and to keep the front panel closed during operation. This will avoid any signal error caused due to overheating in DVD 5480 TO.

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Settings and Control

| Control | |
|----------------------------|---|
| Remote control | Full remote control and status monitoring supported with the APPolo control system. Supported version: APPolo 8.10.0 or above |
| On Board Indicators / LEDs | |
| Input Port status | 8 x LED |
| Master status | 1 x LED |
| Power status | 1 x LED |
| Supported Video Standards | |
| Bits / color | 10 Bit / 4:2:2 (Y,Cr,Cb) |
| Formats : 1.5 Gbit | 720p / 60 / 59.94 / 50 / 30 / 29.97 / 25 / 24 / 23.98 Hz 1080i / 60 / 59.94 / 50 Hz 1080p / 30 / 29.97 / 25 / 24 / 23.98 Hz 1080psF / 25 / 24 / 23.98 Hz |
| Formats : 3.0 Gbit | 1080p / 60 / 59.94 / 50 Hz (Level A) |
| Formats : 12.0 Gbit | 2160p / 60 / 59.94 / 50 Hz |

| SFP Module Selection | | | |
|--------------------------------|--|----------------|---------------|
| Model # | Description | TX Power (dBm) | EAN # |
| Dual Fiber Transmitter Options | | | |
| OH-TT-12G-LC | Dual 12G SDI Optical Transmitter (TT) SFP Module - 10Km - 1310nm - Fiber LC connector | -5..1 | 4250479326330 |
| OH-TT-1-Y-LC | Dual 3G SDI Optical Transmitter (TT) SFP Module - 10km - 1310nm - Fiber LC connectors | -5 | 4250479320642 |
| Single Fiber Receiver Options | | | |
| OH-RX-12G-LC | 12G SDI Single Optical Receiver (RX) SFP Module - (1260 - 1620nm) - Fiber LC connector | -10 | 4250479325043 |
| OH-RX-12G-ST | 12G SDI Single Optical Receiver (RX) SFP Module - (1260 - 1620nm) - Fiber ST connectors | -10 | 4250479327511 |
| OH-RX-8-LC | Single Optical Receiver (RX) SFP Module - (1260 - 1620nm) - High Sense - Fiber LC connectors | -26 | 4250479320741 |

There are CWDM options in 12G and 3G fiber available as well. Please contact our dealers for more information

Ordering Information

| Model # | Description | Includes |
|-------------|---|---|
| DVD 5480 TO | Dual Channel 12G SDI Distribution Amplifier with Single Link to Quad Link (2SI) Conversion And Optical Interfaces | CardModule, Rear Termination Panel and Mounting Screws **Reference Manual can be found on www.lynx-technik.com |

Specifications subject to change