

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.

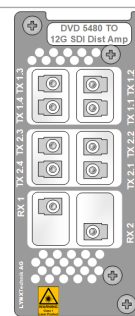
In DVD 5480 TO module, the two fiber input ports provided can be switched by the user individually to the internal channels. Each internal channel has a switchable single Link to quad Link (2SI) converter, which can be set to bypass. In bypass mode, the module acts as an optical distribution amplifier.

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.

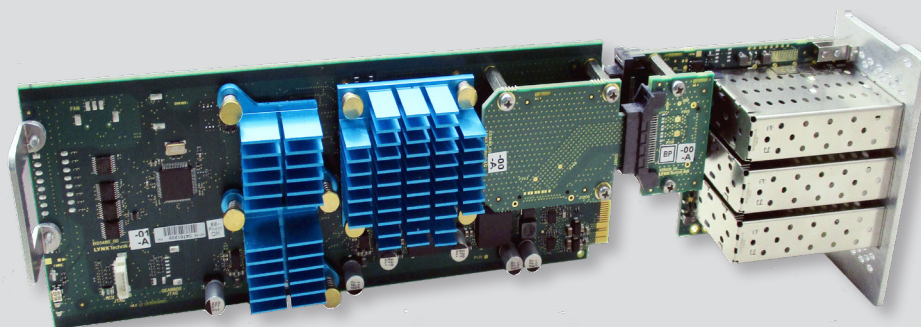
The DVD 5480 TO module is part of the 5000 series of CardModules, which offers high quality, modularity and flexibility in a small form factor ideal for applications where space is at a premium. Like other 5000 series CardModules, this module is fully integrated into LYNX APPolo Control system which provides remote control, status monitoring and error reporting for the module.

Features

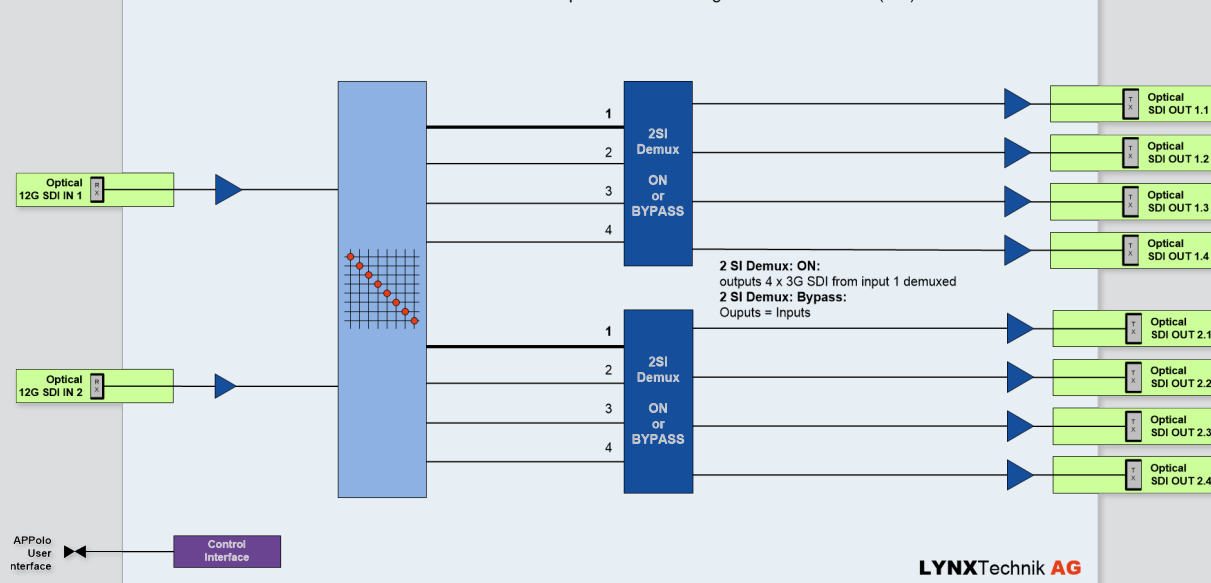
- Supports 12Gbit/s on Optical inputs and outputs
- Auto-detect input video standard
- Dual Channel (2 x 1>4) or Single Channel (1>8) distribution amplifier
- 12G SDI input signals can be demultiplexed to quad link (2SI, 4x3G SDI)
- Input presence detection with LED indication
- Microprocessor controlled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



Backplane



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



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
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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	CardModule 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.

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
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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