



FiberLink® 8200 - 3G/HD/SD-SDI Optical Distribution Series



One to four output optical distribution amplifier with switch selectable copper or optical signal input source.

The FiberLink 8200 Series of optical distribution amplifiers accept a 3G/HD/SD-SDI or DVB-ASI signal via BNC or its optical input and outputs it on four independently driven optical fibers. A convenient front panel switch allows the operator to toggle between the copper and the optical input sources.

Both the copper and optical inputs are SMPTE compliant and the optical input will accept any SMPTE 297-2006 compliant signal. All SMPTE compliant signals are equalized and relocked and each unit comes equipped with a BNC loop-through for continuous copper extension. FiberLink 8200 supports both multimode and single mode fiber and can be equipped with ST or LC optical connectors.

FiberLink 8200 Series can be used as a point-to-multipoint distribution hub, an inline repeater for optical extension or to interface between multimode and single mode fibers with active repeating. The unit can be integrated with FiberLink Matrix for complex signal switching and distribution. FiberLink 8200 can be integrated with FiberLink FlexPOD and FiberLink CWDMs when configured with CWDM compatible output wavelengths.

FiberLink 8200 Series is available with one optical output (8201), two optical outputs (8202), three optical outputs (8203) or four optical outputs (8204).

FEATURES

1x4 3G/HD/SD-SDI Optical/Copper Hybrid Optical Distribution Amplifier

Ideal Applications:

Broadcast or corporate studios, OB trucks, distance learning, remote studio monitoring, rental and staging, auditoriums, stadiums and theaters, airport or transportation hubs, surgical or medical imaging

Switch selectable copper or optical 3G/HD/SD-SDI input

Supports 3G/HD/SD-SDI and DVB-ASI signals
Available with one to four outputs

Copper and optical ports are SMPTE compliant

All 3G/HD/SD-SDI and DVB-ASI signals are equalized and re-locked

Active re-locked BNC loop of selected input (BNC or Optical)

Support pathological patterns across the entire operating temperature range

Available with LC or ST connectors

Supports single mode and multimode fibers in one unit

Optional CWDM compatible optical outputs available

Can be used as an inline repeater for optical extension

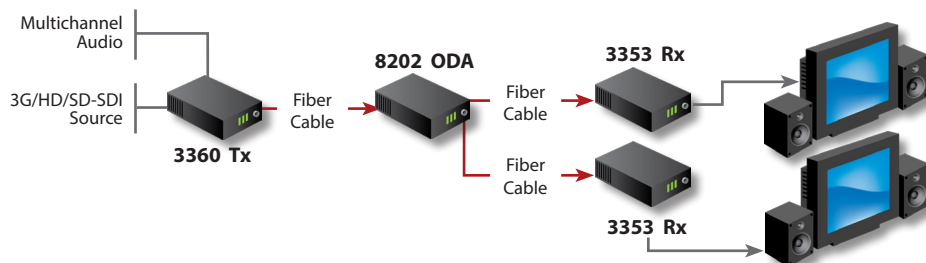
Can be used to interface between multimode and single mode fibers with active repeating

FiberLink Matrix compatible

Small, compact design as standalone box

Card version available for 6000A card cage

Low power consumption - 3.6 watts



SPECIFICATIONS

Serial Video BNC Input

Number of Inputs	1
Date Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 424M-2006, 305M, 310M, 344M, DVB-ASI
Re-clocked Data Rates	270 Mbps (SMPTE 259M, DVB-ASI-270), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps

Fiber Optic Input

Connector	LC or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps -20 dBm at 1.485 Gbps -21 dBm at 270 Mbps
Maximum Input Power	0 dBm

Serial Video BNC Loop-Through Output

Number of Loop-Throughs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006 < 270 ps at 1.485 Gbps per SMPTE 292 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps and 2.97 Gbps

Optical Output

Connector	LC or ST
Wavelength	1310nm (nominal)
Emitter Type	FP Laser
Output Power (nominal)	-3.5 dBm at 270 Mbps, 1.485 Gbps & 2.97 Gbps
Re-clocking	At 270 Mbps, 1.485 Gbps and 2.97 Gbps

General Specifications

Indicators	Power, Data Rate Lock (3G, HD, SD/DVB-ASI) Alarm (Card Version Only)
Switch	Selects BNC or Optical input
Box Version Dimensions	6.5 W x 1.15 H x 6 L (inches) 165 W x 29 H x 152 L (mm)
Weight	14 ounces, 398 grams
Slots in 6000A Card Cage	2
Power	9-24 volts, DV or AC, 3.6 watts 12.28 BTU/Hr
Operating Temperature	-10° C to +50° C
Compatibility:	FiberLink Matrix, 7820, 3350, 3360, 3380, 2302/4, 3353, 3355 and other SMPTE compliant devices



UPDATED 07/30/2016
All specifications subject to change without notice. ©2016

Ordering Information

Part Number	Description	Fiber Cores
8201-xzm	One Output Optical Distribution Amp	1
8202-xzm	Two Output Optical Distribution Amp	2
8203-xzmmm	Three Output Optical Distribution Amp	3
8204-xzmddd	Four Output Optical Distribution Amp	4
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:
NA - North America AU - Australia EU - Europe
JP - Japan UK - United Kingdom

Part Number Suffix Codes:
x: B Box Version
C Card Version
z: S ST Connector
L LC Connector

m: 7	Standard 1310nm FP laser		
A	1310nm DFB laser	I	1470
B	1330	J	1490
C	1350	K	1510
D	1370	L	1530
E	1390	M	1550
F	1410	N	1570
G	1430	O	1590
H	1450	P	1610

Sales



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