

DL4000 VIDEO TRANSPORT SYSTEM

DL4000T/R
Brazilian Digital Television Standard
Studio to Transmitter Optical Link for BTS/ISDB-T



Features

Complete system in one RU chassis

Dual Redundant AC Power Supplies

For distances up to 120Km (30dB)

External Accessible SFP Transceiver Optics

Front panel monitor selectable between input and output

Front and rear panel status LEDs

Rear panel monitor of electrical input

Channel 1 - Optical Transport of Video

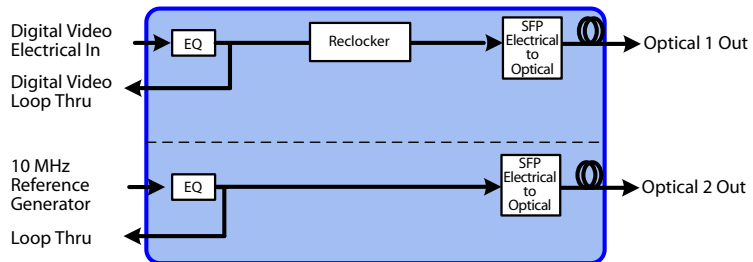
- DVB-ASI (any bit rate up to 216 Mb/s)
- 1.485Gb/s HD-SDI (SMPTE 292M)
- SD-SDI (SMPTE 259M-C, ITU 656)
- SDTI (SMPTE 305M)
- 19.39Mb/s ATSC (SMPTE 310M)

Channel 2 - Optical Transport of 10 MHz Rubidium Sinusoidal reference signal

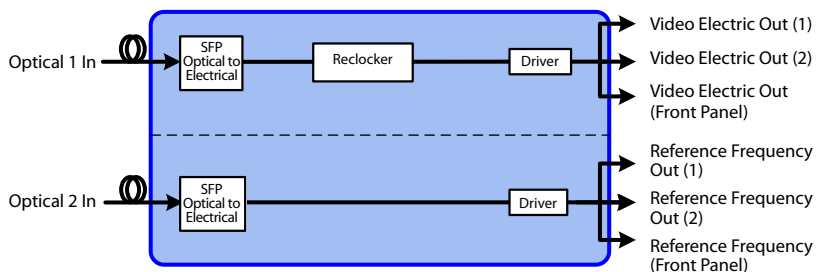
The DL4000T/R Studio to Transmitter Optical Link for BTS / ISDB-T provides an optical link for 10 MHz Rubidium Sinusoidal reference signal as well as a DVB-ASI video circuit.

Based on the DL4000 Video transport platform, the DL4000T/R is an innovative Dual-Channel, single rack-unit system enabling optical transmission for distances up to 120km (30dB) of both a 10 MHz Rubidium Sinusoidal reference signal and a DVB-ASI, SD-SDI, HD-SDI or ATSC video circuit. The system features front and rear panel monitoring of the signals and dual redundant AC power supplies. The system is simple to deploy with no configuration or setup required.

DL4000T Optical Link Transmitter

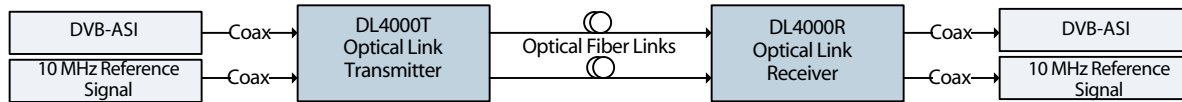


DL4000R Optical Link Receiver



DL4000T/R Specifications

Brazilian Digital Television Standard - BTS/ISDB-T Optical Transport



Electrical Interface (Video Channel)

Signal Formats

- HD-SDI (SMPTE 292M)
- SD-SDI (SMPTE 259M-C, ITU 656)
- SDTI (SMPTE 305M)
- DVB-ASI (EN 50083-9)
- 19.39Mb/s
- ATSC (SMPTE 310M)

Connectors (Transmitter)

- Input (1) BNC, 75 Ohm
- Loop Through (1) BNC, 75 Ohm
- Monitor Mini 75 Ohm SMB

Connectors (Receiver)

- Output (2) BNC, 75 Ohm
- Monitor Mini 75 Ohm SMB
- Return Loss >15 dB, 5-1485 MHz
- Cable Equalization 0 to 350 meters (270 Mb/s)
- (Belden 1694A): 0 to 140 meters (1485 Mb/s)

Electrical Interface (Reference Channel)

Signal Format

- 10 MHz Rubidium sinusoidal reference signal

Connectors (Transmitter)

- Input (1) BNC, 75ohm
- Loop Through (1) BNC, 75ohm
- Monitor Mini 75ohm SMB
- Return Loss >14 dB @ 50 Ohms

Connectors (Receiver)

- Output (2) BNC, 75ohm,
- Monitor Mini 75ohm SMB
- Return Loss >14 dB @ 50 Ohms

Optical Interface

SFP (Small Form-Factor Pluggable)

Optical Budget	11db
Wavelength	1310nm ± 30nm
Optical Output (Min)	-7dBm
Receiver Sensitivity	-18dBm

Power

Type	Dual AC
Input Voltage	90 to 254 VAC at 50 or 60 Hz
Current	1.0 Amp (max.)
Power Consumption	
One Dual-Channel Chassis	50W
Two Dual-Channel Chassis	60W
BTU/hr	
One Dual-Channel Chassis	170 BTU/hr
Two Dual-Channel Chassis	205 BTU/hr

Environmental

Ambient Operating Temp	0 to 40°C, 32 to 104°F
Relative Humidity	10 to 95% (non-condensing)
Ambient Storage Temp	-40 to 80°C, -40 to 176°F

Physical

Chassis Dimensions (H, W, D)	1.75" x 19.0" x 10.50" 4.44 cm x 48.26 cm x 26.67
Weight	8.0 lbs, 3.63kg
Rack Mount Requirement	One 19" Rack Unit

Regulatory Conformance

Compliance	NEBS Level 3, CE (EN50082-1, EN89/336/EEC)
Safety	UL, CSA, EN60950, LVD 73/23/ECC, IEC Class 1 Laser Device
EMI	FCC (Part 15, Class A), ICE3-003, EN50022, CISPR22 (Class A)

Ordering Information

Model	Description (for BTS/ISDB-T)	Part #
DL4000T	Transmitter, Dual Channel Optical Link - Studio to Transmitter	398-200000-00
DL4000R	Receiver, Dual Channel Optical Link - Studio to Transmitter	398-200100-00



Front Panel DL4000T/R Dual Channel Optical Link



Rear Panel DL4000T/R Dual Channel Optical Link