

DigiLink 8000 Multi-Channel Fiber Optic Video Transport System



The DigiLink 8000 meets the demands for broadcast quality, multichannel video and audio fiber optic transmission in a space efficient 2RU design. An extremely cost-effective solution, the 8000 is a component of the DigiLink product line, the most flexible and reliable video over fiber transport system available.

Flexible

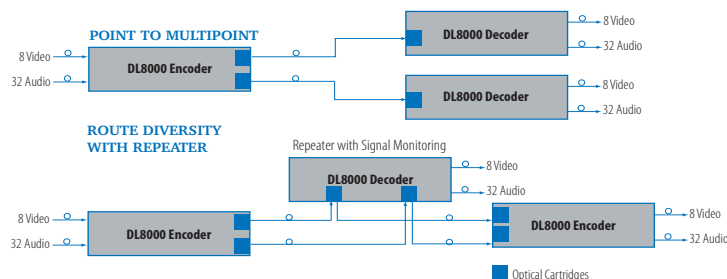
- ▶ **Supports NTSC, PAL and SECAM**
- ▶ **Field replaceable optics cartridges** – Modular receiver, transmitter and transceiver operating at 1310nm 1550nm and DWDM wavelengths
- ▶ **Route diversity** - Dual transmit and receive cartridges
- ▶ **Alarm Notifications** – Front panel display, SNMP, and relay contacts
- ▶ **ITU Standard DWDM Optics** – Compatible with Artel MegaWav or third party products for single fiber multiwavelength and bidirectional applications
- ▶ **Redundant Power Supply Option**

Industry Leading Quality and Reliability

- ▶ **Exceeds RS250C (short-haul) standard** – Signal to noise ratio greater than 69dB
- ▶ **5 Year Warranty** – Industry leading 20 year demonstrated MTBF
- ▶ **Optimum performance** – Highest performance using over sampled converters and digital filtering techniques on both audio and video channels

Unique Features

- ▶ **Full function front panel display** – Provides configuration, alarm notifications and signal strength monitoring
- ▶ **Supports point to point and point to multipoint and repeater applications**
- ▶ **Ultra long haul** – Unrepeated transmission distances over 150 km
- ▶ **SNMP Network Management** – Provides for alarm notifications, signal strength monitoring
- ▶ **40 wavelengths over one fiber** – For open architecture multi-channel and high-density applications



When the world is watching, you can depend on Artel.

Power

AC Specifications

Input Voltage	90 to 254 VAC at 50 or 60 Hz
Current	2.0 Amp (max)
Power Consumption	100 Watts (max.)
BTU/hr	350

DC Specifications

Voltage	-38.4 to -57.6 VDC
Current	2.5 Amps (max)
Power Consumption	100 Watts (max)
BTU/hr	350

Baseband Video

Exceeds 250C short-haul specifications

Bandwidth	7.9 MHz
Quantization	10 bit
Number of Video Channels	8 (NTSC/PAL/SECAM)
Weighted SNR (4.2 MHz)	>69 dB
I/O Connector	BNC/75 Ω

Baseband Audio

Exceeds 250C short-haul specifications

Freq. Response	(±0.3 dB) 20Hz-20kHz
No. of Audio Channels	32
Distortion	<0.1% (20Hz and 20 kHz) <0.05% (400Hz +18 dBm)
SNR	>90 dBA (+18 dBm)
Audio Connector	9-pin D type with screw terminal adapters

Physical

Chassis Dimensions (H, W, D)	3.5" x 19.0" x 11.5" 8.89 cm x 48.26 cm x 29.21 cm
Chassis Weight	13 lbs, 5.9 kg, with optics
Rack Mount Requirement	Two 19" Rack Units
Management Relays	Contact closure Normal Open or Normal Close, Major/Minor alarms
Ambient Operating Temp.	0 to 40°C, 32 to 104°F
Ambient Storage Temp.	-40 to 80°C, -40 to 176°F
Ambient Relative Humidity	10-95% (non-condensing)

Alarms

Contact	Male 3-pin NO/C/NC Switch
Cause Management	Major, minor alarms SNMP, 10BaseT

Note: Specifications are subject to change without notice.

Optional Redundant Power Supply

Dimensions (H, W, D)	1.75" x 19.0" x 13.50" 4.45 cm x 48.26 cm x 29.21cm
Weight	9 lbs, 4 kgs
Input Voltage	90 to 254 VAC, 50 or 60 Hz or -38.4 to -57.6 VDC
Output Voltage	13 VDC (±0.5 VDC) x 4
Power Consumption	30 W in standby mode 600 W all four outputs in operation
BTU/hr	410
Current	8 A (AC) or 20A (DC)

Optical Cartridges

Optical Connector	FC/PC
Connector Loss	0.25 dB (max)
Fiber Type	SMF

DL8K-13T and DL8K-13X

Optical Power Output	0 dBm (min)
Optical Wavelength	1310 ± 30 nm

DL8K-15T and DL8K-15X

Optical Power Output	0 dBm (min)
Optical Wavelength	1550 ± 35 nm
Spectral Width	<0.8 nm FWHM

DL8K-21T thru DL8K-59T and DL8K-21X thru DL8K-59X

Optical Power Output	0 dBm (min)
Optical Wavelength	ITU Grid ± 0.1 nm
Spectral Width	<0.8 nm FWHM

DL8K7-21T thru DL8K7-59T and DL8K7-21X thru DL8K7-59X

Optical Power Output	+7.0 dBm (min)
Optical Wavelength	ITU Grid ± 0.1 nm
Spectral Width	<0.8 nm FWHM

DL8K-R

DL8K-21X thru DL8K-59X

DL8K7-21X thru DL8K7-59X

Receiver Sensitivity	-34 dBm
Maximum Input	-1 dBm (operating)
Input Wavelength	1200 to 1600 nm
Input Aperture	SMF

Regulatory Conformance

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

Ordering Information

Part Number	Description
390-500550-00	DL8000 Encoder, AC Input
390-500550-48	DL8000 Encoder, -48VDC Input
390-500570-00	DL8000 Decoder, AC Input
390-500570-48	DL8000 Decoder, -48VDC Input
390-000503-00	Multi Channel Receiver Cartridge
390-000502-XX	Multi Channel Transmitter Cartridge
390-000500-XX	Multi Channel Transceiver Cartridge (xx indicates channel number)
390-000580-00	Redundant Power Unit, AC
390-000580-48	Redundant Power Unit, -48 VDC



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