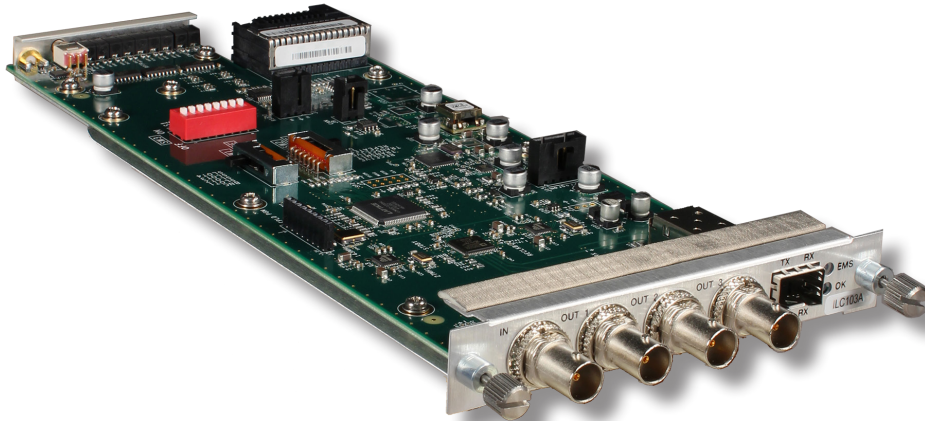




InfinityLink ILC103A 3G/HD/SD-SDI, ASI Transmitter/Receiver



The ILC103A is a flexible, cost-effective, bi-directional fiber optic transport module for all digital video formats ranging from 19.39 Mb/s to 2.97 Gb/s. The module is user configurable to function as a transmitter, receiver, transceiver, repeater, or 4-channel distribution amplifier.

The ILC103A and the InfinityLink chassis combine to create the backbone of a video transmission network that can span feet or miles. Using removable SFPs transceivers available in 1310 nm, 1550 nm, and 18 CWDM wavelengths, makes the ILC103A the most

flexible, easy-to-deploy, and reliable single channel digital video optical transport module ever developed.

FEATURES

Single card configurable as:

- Transmit (electrical to optical)
- Receive (optical to electrical)
- Bi-directional (independent transmit and receive)
- Repeat/Regenerate (optical to optical)
- 4-channel distribution amplifier

Automatic rate selection of all digital video formats

- 2.967 Gb/s 3G-SDI (SMPTE 424M)
- 1.485 Gb/s HD-SDI (SMPTE 292M)
- 270 Mb/s
 - SD-SDI (SMPTE 259M-C, ITU 656)
 - SDTI (SMPTE 305M)
 - DVB-ASI
- 19.39 Mb/s ATSC (SMPTE 310M)

Externally accessible SFP transceiver optics

- Optical budget to 30 dB
- WDM (1310 nm, 1550 nm)
- CWDM ITU G.694.2 (channels 1271-1611)

Inputs/outputs

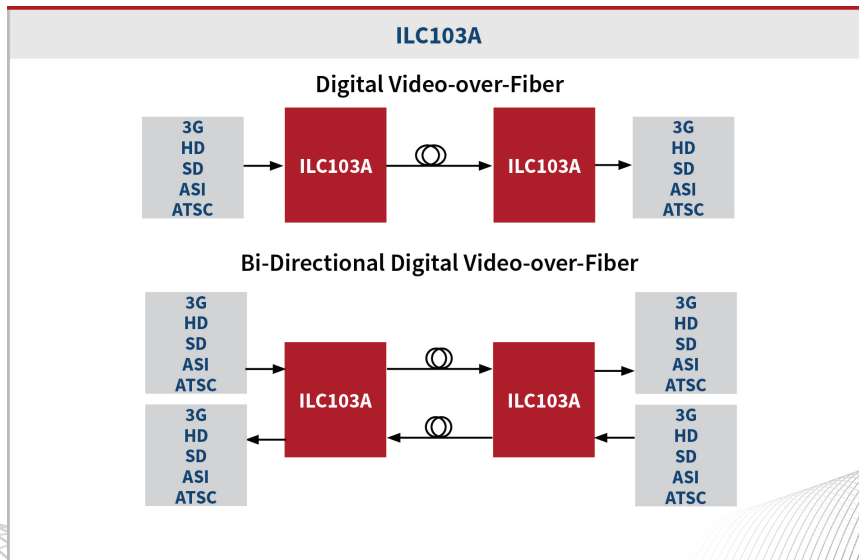
- Optical via SFPs
- Electrical input (1) and outputs (3) via 75 Ohm BNC
- Input from and output to other modules in InfinityLink chassis (via backplane)

Multiple monitor options

- Front panel monitor selectable between optical input and optical output (HD-BNC)
- Front and rear panel status LEDs

Remote management via InfinityLink Manager

- No external software required
- HTTP or SNMPv2
- Monitor
- Configure
- Upgradable firmware



SPECIFICATIONS

Environmental

Ambient operating temperature	0 to 50°C
Ambient storage temperature	-40 to 80°C
Relative humidity	10 to 95% (non-condensing)
Power dissipation	< 8 Watts

Physical

Dimensions	0.8" x 5" x 10.8"
	1 slot in InfinityLink chassis

Optical Interface

Artel Video SFP	See SFP Specifications
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Electrical Interface

Signal Formats	2.967 Gb/s - 3G-SDI (SMPTE 424M) 1.485 Gb/s - HD-SDI (SMPTE 292M) 270 Mb/s - SD-SDI (SMPTE 259M-C, ITU 656) - SDTI (SMPTE 305M) - DVB-ASI - ARTEL 270 19.39 Mb/s ATSC (SMPTE 310M)
Signal polarity	Non inverting
Channels	1-transmit, 1-receive
Connectors	
Input (1)	BNC 75 Ohm
Output (3)	BNC 75 Ohm
Monitor	HD-BNC 75 Ohm
Return loss (with active video)	>15 dB, 5-1485 MHz >10 dB, 1486-2967 MHz
Cable equalization for Belden 1694A type cable:	0 to 250 meters (270 Mb/s) 0 to 100 meters (1.485 Gb/s) 0 to 100 meters (2.967 Gb/s)

Regulatory Conformance

Compliance:	CSA 60950, EN60950, EN55022 FCC Part 15 (Class A), CISPR 22
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Front panel monitoring and status display



Rear panel includes one electrical Input, three electrical outputs, and SFP transceiver cage



UPDATED 11/04/2016

All specifications subject to change without notice. ©2016



Schedule
Contract GS-03F-016CA

Ordering Information

ILC103A Function Module

Model	Description	Part #
ILC103A	3G/HD/SD-SDI, ASI Transmitter/Receiver	390-006215-00

SFP Options See SFP/SFP+/XFP compatibility chart

Monitor Cable

Model	Description	Part #
DL100HDMC-72	Monitor Cable, HD-BNC to BNC, 72" long	396-001010-72

Sales



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