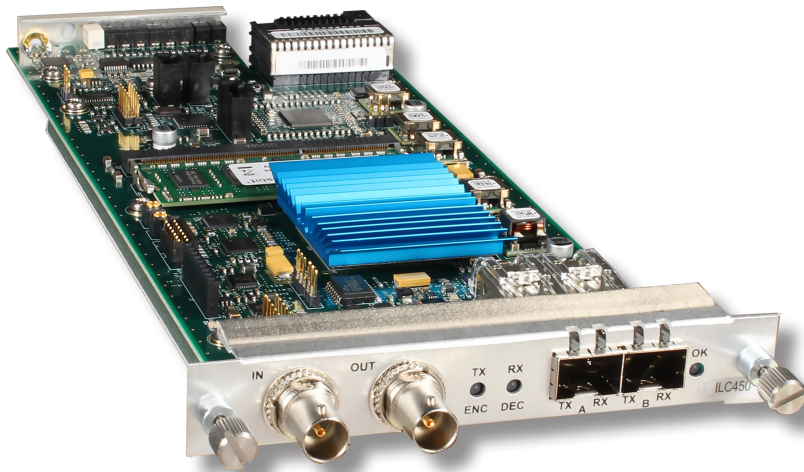




InfinityLink ILC450 - 10G HD/SD-SDI, ASI IP Gateway & GigE Data Transport



The ILC450 utilizes SMPTE 2022-1/2 or 5/6 Video-Over-IP Standards for transport of HD/SD-SDI, ASI video and includes a Gig-E IP interface to bridge IP data over the 10 Gig Ethernet IP interface.

Integrating seamlessly within the InfinityLink platform, the ILC450 module is customer configurable via InfinityLink Manager or via SNMPv2 as either a Video-Over-IP Transmitter (TX mode) or a Video-Over-IP Receiver (RX mode). In TX mode, the ILC450 packetizes the video to SMPTE 2022-6 or 2022-2 encapsulation standards and provides users with flexible SMPTE 2022-5 or 2022-1

FEC configurations to maximize reliability and minimize latency and overhead. In RX mode, its robust multi-pass FEC correction algorithm and user configurable packet buffering enable reliable performance over less than ideal Ethernet links. The ILC450 sets the bar for reliable, low cost, and easy to configure HD/SD-SDI, ASI, and Gig-E transport over IP.

FUNCTIONS

- Video-Over-IP Transport of HD/SD-SDI and ASI
- Single module user configurable as a transmitter or receiver
- Fully transparent carriage of HD/SD-SDI, and ASI including audio and ancillary data
- Gig E data bridged over 10G interface

FEATURES

Automatic rate selection

- 1.485 Gb/s HD-SDI (SMPTE 292M)
- 270 Mb/s SD-SDI (SMPTE 259M-C, ITU 656)
- DVB-ASI

Standards-based encapsulation and forward error correction

- SMPTE 2022-6 IP Encapsulation of HD and SD SDI
- SMPTE 2022-2 IP Encapsulation of DVB-ASI
- SMPTE 2022-5 FEC recovers lost, damaged, or delayed packets of HD and SD SDI
- SMPTE 2022-1 FEC recovers lost, damaged or delayed packets of ASI

Flexible user configurable FEC and buffering setting

- Selectable transmitter row and column Forward Error Correction settings
- Selectable receiver buffering
- Designed to withstand burst outages in excess of 3 ms

Supports unicast or multicast streaming

Externally accessible SFP+ transceiver

- WDM (1310 nm, 1550 nm)
- CWDM ITU G.694.2 (Channels 27-61)
- DWDM ITU G.694.1 (Channels 21-60)

Externally accessible SFP transceiver

- Optical budget to 33dB
- WDM (1310nm, 1550nm)
- CWDM ITU G.694.2 (Channels 27-61)
- DWDM ITU G.694.1 (Channels 21-60)

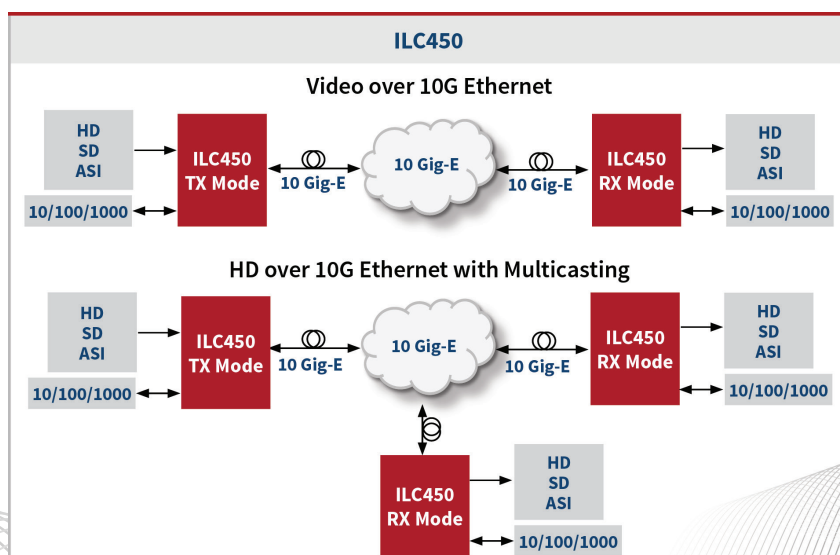
Front panel HD-BNC monitor

1G Ethernet SFP Electrical/Optical Interface

Auto-Negotiable to 10/100/1000

Configure, monitor, and manage via on-board InfinityLink Manager or SNMPv2

Low power design consumes a single function slot in a InfinityLink chassis



SPECIFICATIONS

Environmental

Operating Temperature	0 to 50°C
Ambient storage temperature	-40 to 80°C
Relative humidity	10 to 95% (non-condensing)
Power dissipation	17 Watts

Physical

Dimensions	0.8" x 5" x 10.8" 1 slot in InfinityLink chassis
Weight	<2 pounds, (1kg)

Video Interface

Signal Formats	HD-SDI (SMPTE 292M) SD-SDI (SMPTE 259M-C, ITU 656) DVB-ASI
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Electrical Video Interface

Input	Rear BNC 75 Ohm
Output	Rear BNC 75 Ohm Front HD-BNC 75 Ohm
Return Loss	>15 dB, 5-1485 MHz
Cable Equalization for Belden 1694A type cable:	0 to 100 meters (1.485 Gb/s) 0 to 250 meters (270 Mb/s)

10G Network Interface

Type	Ethernet SFP+
Optical Connectors	LC
Format	10 Gig-E

Gig E Network Interface

External SFP	1 (Optical or RJ-45)
Internal	1 to other modules in InfinityLink chassis
Data Rates	10/100/1000 Ethernet

Regulatory Conformance

Compliance:	CSA 60950, EN60950, EN55022 FCC Part 15 (Class A), CISPR 22
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ILC450 front panel video and data I/O and status LEDs



ILC450 rear panel video and data I/O and status LEDs



UPDATED 07/18/2016

All specifications subject to change without notice. ©2018



Schedule
Contract GS-03F-016CA

Ordering Information

Model	Description	Part #
ILC450	10G HD/SD-SDI, ASI IP Gateway & GigE Data Transport	390-006450-00

SFP/SFP+ Options See SFP/SFP+/XFP compatibility chart

Monitor Cable

Model	Description	Part #
DL100HDMC-72	Monitor Cable, 75-Ohm HD-BNC to BNC	396-001010-72

Sales



T: +1 978-263-5775
sales@artel.com
customer@artel.com
www.artel.com