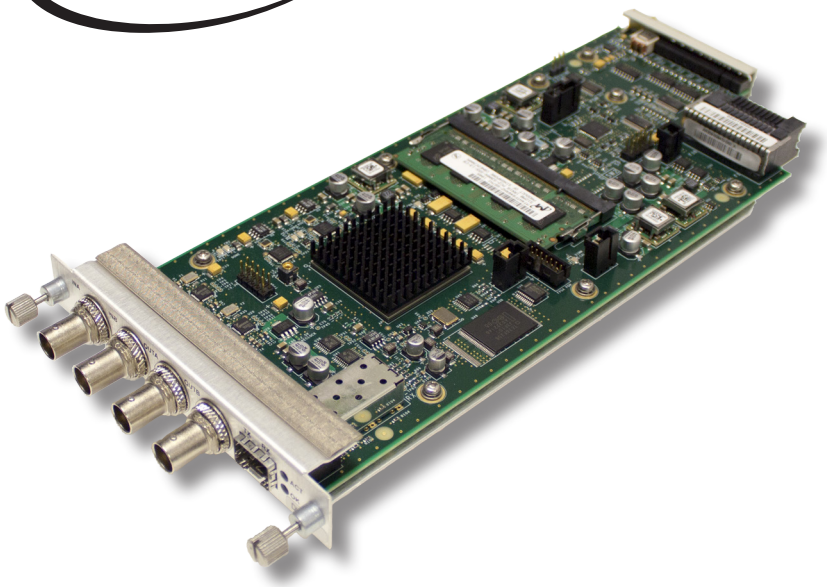
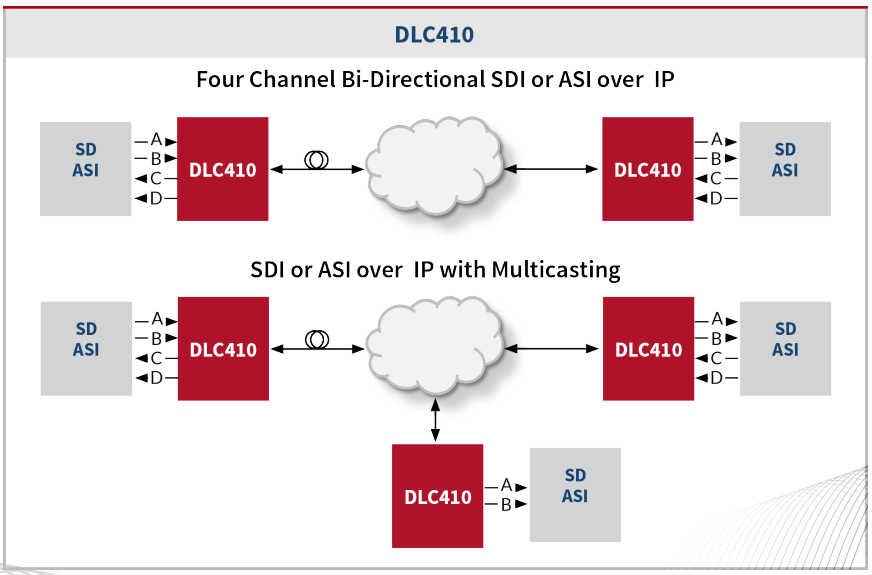
DigiLink DLC410 - DVB-ASI and SD-SDI Video-Over-IP Gateway



The DLC410 expands the DigiLink video platform capabilities to include SMPTE standards-based video-over-IP transport for both DVB-ASI and SD-SDI formats.

Based on SMPTE 2022 standards for encapsulation and Forward Error Correction (FEC), the DLC410 enables SDI and ASI to be reliably transported across managed IP networks. The module is capable of transporting four channels (two in each direction) of DVB-ASI or SD-SDI over a gigabit Ethernet IP network connection. SDI video is transported in its entirety, including all ancillary data. ASI video streams from less than 20 Mb/s to over 200 Mb/s are supported and can be rate limited.

The DLC410 FEC enables the recovery of lost, errored, or delayed IP packets and can withstand burst outages in excess of 3 ms. Access to the IP network is through rear accessible, field replaceable SFPs either optically in WDM, CWDM , and DWDM wavelengths or electrically via an RJ-45 SFP.



FEATURES

Single-module transceiver for SD-SDI and DVB-ASI over Gig-E

- Fully transparent carriage of SDI and SDTI
- Includes all SDI and SDTI ancillary information
- DVB-ASI stream rates from <20 Mb/s to >200 Mb/s
- Supports 188-byte and 204-byte DVB-ASI packets
- Provisionable limits on bandwidth for DVB-ASI

Four independent channels: two transmit, two receive

Unicast or multicast IP video streams

Standards-based encapsulation and Forward Error Correction

- DVB-ASI
  - SMPTE 2022-2 Encapsulation
  - SMPTE 2022-1 FEC
- SDI
  - SMPTE 2022-6 Encapsulation
  - SMPTE 2022-5 FEC
- FEC recovers lost, errored, or delayed packets
- Withstands burst outages in excess of 3 ms
- Row and column FEC supported

Externally accessible SFP transceivers

- Optical budget to 33 dB
- WDM (1310 nm, 1550 nm)
- CWDM ITU G.694.2 (Channels 27-61)
- DWDM ITU G.694.1 (Channels 21-60)
- Electrical to RJ-45 Ethernet

Front panel monitoring of active video signals

Remote management via DigiLink Manager

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

SPECIFICATIONS

Network Interface - Optical	
Type	SFP
Optical connectors	LC
Format	1000Base-LX, 1000Base-ZX

Network Interface - Electrical	
Type	SFP
Connector	RJ-45
Data rate	1000 Mb/s
Format	1000Base-T

Video Interface	
Formats	SD-SDI (SMPTE 259M) SDTI (SMPTE 305M) DVB-ASI
Channels	2 input and 2 output

Electrical Interface	
Input	(2) BNC 75 Ohm
Output	(2) BNC 75 Ohm
Monitor (front)	HD-BNC 75 Ohm
Return loss	>15 dB, 5-270 MHz
Cable equalization for Belden 1694A type cable	0 to 250 meters (270 Mb/s)

Environmental	
Operating temperature	0 to 50°C
Ambient storage temperature	-40 to 80°C
Relative humidity (non-condensing)	10 to 95%
Power dissipation	12 Watts

Physical	
Dimensions	0.8” x 5” x 10.8” 1 slot in chassis

Regulatory Conformance	
Compliance:	Certified NEBS Level 3, CSA 60950, EN60950, EN55022, FCC Part 15 (Class A), CISPR 22

Made in the USA

GSA Schedule Contract GS-03F-016CA

UPDATED 11/04/2016

All specifications subject to change without notice. ©2016

Ordering Information

DLC410 Function Module

Model	Description	Part #
DLC410	DVB-ASI and SD-SDI Video Over IP Gateway	390-008410-00
SFP Options	*See SFP/SFP+/XFP compatibility chart*	

Monitor Cable

DL100HDMC-72	Monitor cable, HD-BNC to BNC, 72” long	396-001010-72

Front panel monitoring and status displays

Rear panel includes 2 input and 2 output BNCs plus SFP cage

AR206-008410-D00_O

Sales

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