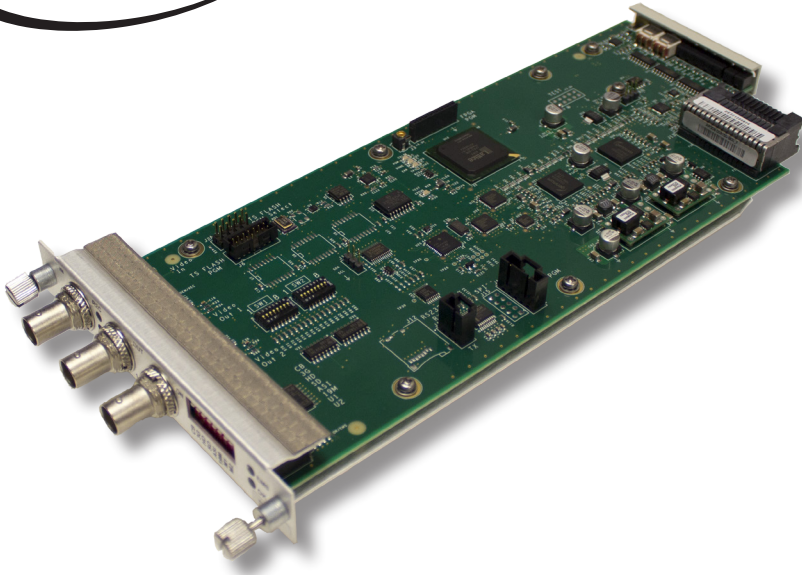




DigiLink DLT710 - Multi-Format Digital Video Generator and Tester

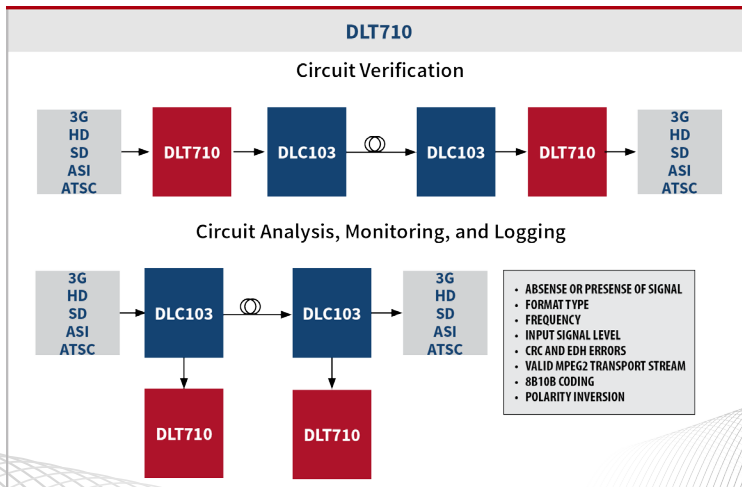


Artel's DLT710 is an innovative, DigiLink based module for simple, automatic link verification of serial digital video formats. The single-module functions as both a signal generator and test monitor for 3G-SDI, HD-SDI, SD-SDI, DVB-ASI, and ATSC and is ideal for automatic verification of single or multi-format video links.

A universal digital video link test and verification module, the DLT710 provides complete, one-touch "go-no-go" performance testing for all common video rates and formats. Its unique design allows for one or more formats to be selected simultaneously enabling automatic verification of multi-format video links.

As a test signal generator, the DLT710 outputs a continuous video signal of a single selected format or a timed sequence through each selected format.

When configured as a monitor for a single format it will continuously monitor live digital video and indicate rate and physical layer signal quality. With more than one format selected, the module automatically verifies each rate has been received. With this unique multi-purpose module, verification of a multi-service video link can be performed in less than five minutes. The DLT710 is an ideal solution for link verification of digital video circuits.



FEATURES

Single-module provides generation and verification for:

- 2.97Gb/s 3G-SDI (SMPTE 424M)
 - 1080p/59.94
 - 1080p/50
- 1.485Gb/s HD-SDI (SMPTE 292M)
 - 1080i/59.94
 - 1080i/50
 - 720p/59.94
 - 720p/50
- 270Mb/s SD-SDI (SMPTE 259M)
 - 525i/59.94
 - 625i/50
- 270Mb/s DVB-ASI
- 19.39Mb/s ATSC (SMPTE 310M)

Video generator functions

- User selectable rates and formats
- SDI color bars or pathological test signals both with audio tone
- Stored MPEG video stream
- Automatically sequences through all selected formats
- Output to two BNCs and chassis backplane
- SMPTE 352 Video payload ID (SD/HD/3G-SDI)

Video monitor functions

- Test for EDH, CRC
- Automatically detects input signal
- Tests DVB-ASI and SMPTE 310 transport streams
- DVB-ASI inversion detection
- Detects and verifies all selected formats
- Input from BNC or chassis backplane
- Indicates low-level or double terminated inputs

Precision Timebase

- Accurate Generator Frequency
- Detects and displays in DL Manager input video frequency offset in ppm

Remote management via DigiLink Manager

- No external software required
- HTTP or SNMPv2c
- Configure, monitor
- Upgrade firmware
- Time-stamped event log

SPECIFICATIONS

Video Electrical Interface

Inputs	1 BNC 75 Ohm (panel) Other modules in DigiLink chassis via backplane
Outputs	2 BNC 75 Ohm (panel) 1 mini 75 Ohm SMB (front panel) Other modules in DigiLink chassis via backplane
Return loss (input, output, monitor)	> 15 dB 5-1485 MHz > 10 dB 1486-2970 MHz
Cable equalization for Belden 1694A	0 to 50 meters
Output amplitude	800mVP-p, ± 10%
Rise/fall time	
270Mb/s	800ps ±400
1.485Gb/s	< 135ps
2.970Gb/s	< 135ps
Generation frequency stability	± 2.5 ppm maximum
Output jitter*	
270Mb/s	< 500 ps p-p
1.485Gb/s	<135 ps p-p
2.970Gb/s	<101 ps p-p

* Using color bars, per EG-33

Environmental

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

Physical

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

Regulatory Compliance

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



Rear panel includes electrical video and audio signal generator and checker, and format select switches

DLK710 Kit Includes:

- DLT710 Multi-Format Digital Video Generator and Monitor
- DL4100 single slot chassis with external AC power supply
- 16.68" x 13.06" x 4.37" ruggedized travel case
- BNC to BNC monitor cable (2)
- BNC to mini-SMB monitor cable
- Screwdriver



UPDATED 11/04/2016

All specifications subject to change without notice. ©2016



Schedule
Contract GS-03F-016CA

Ordering Information

DLT710 Digital Video Generator and Test Module

Model	Description	Part #
DLT710	Multi-Format Digital Video Generator and Test Module	390-008150-00
DLK710	Multi-Format Digital Video Generator and Test Module Travel Kit	398-008150-00

Sales



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