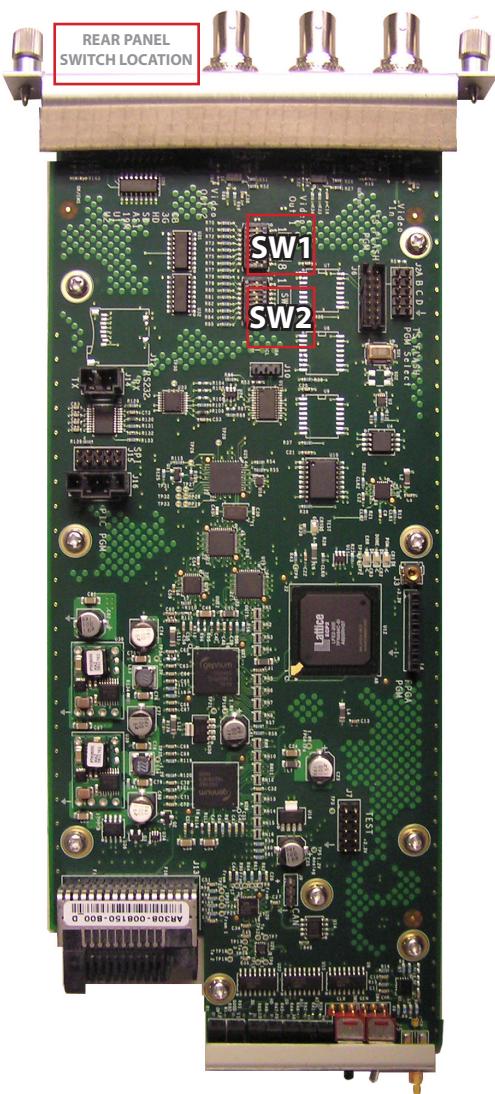




# DigiLink DLT710 - Multi-Format Digital Video Generator and Test Module



## Configuration Switch Functions

<b>SW1</b>	Determines a portion of the test timing and enables test features
<b>SW2</b>	Determines signal format, input source, and EMS functionality
<b>Rear Panel Switch</b>	Determines test pattern type, signal type, test mode (continuous or single pass), and length of test

Artel ships the DLT710 configured as follows:

- All signal types enabled (3G, HD, SD, DVB-ASI, ATSC)
- Electrical input set to BNC
- Front panel GEN/CHK switch set to CHK
  - LEDS indicate checker status
  - Monitor jack contains copy of input BNC
- Multi-format, continuous test mode enabled
- Signal check test interval set to 60 seconds
- Signal check synchronization interval set to 5 seconds
- SDI generator pattern set to color bars, full screen @ 75%
  - 1080p 59.94 frames/sec
  - 1080i 29.97 frames/sec
  - 525i 29.97 frames/sec
- Embedded audio is 1 kHz tone @ -20 dBfs, all 4 channels of audio group 1
- DVB-ASI and ATSC generator transport stream
  - SMPTE color bars with moving block
  - MPEG-2 single program @ 19.292 Mb/s
  - SD video format, 720x480i, 29.97 fps
  - Embedded audio is left/right channel, 1 kHz tone @ -20 dBfs, AC-3 format
- Report data rate frequency errors > 40 ppm
- Report inverted DVB-ASI format
- EMS override is allowed (DigiLink Manager can change the DLT710 configuration)

## DIP SWITCH CONFIGURATIONS

Rear Panel Switches			
SW	Function	Off (Down)	On (Up)
S1	<b>SDI Pattern</b>	Pathological	<b>Color Bars</b>
S2	<b>3G-SDI</b>	Disabled	<b>Enabled</b>
S3	<b>HD-SDI</b>	Disabled	<b>Enabled</b>
S4	<b>SD-SDI</b>	Disabled	<b>Enabled</b>
S5	<b>ASI</b>	Disabled	<b>Enabled</b>
S6	<b>ATSC</b>	Disabled	<b>Enabled</b>
S7	<b>Check Mode</b>	Single-Pass Test	<b>Continuous Test</b>
S8	<b>Signal Test Interval</b>	Custom	<b>Normal</b>

**Factory Default: All On**

**Monitor Mode: All Off** (See User Manual for Details)

SW2 Configuration			
SW	Function	Off	On
S1	<b>HD Vert Res</b>	720p	<b>1080i</b>
S2	<b>Format</b>	625 Line (SD) 50 Field (HD/3G)	<b>525 Line (SD) 59.94 Field (HD/3G)</b>
S3	<b>Reserved</b>	-	<b>Default</b>
S4	<b>Reserved</b>	-	<b>Default</b>

**Factory Default: All On**

S5	S6	S7	Checker Input
On	On	On	BNC In
Off	Off	Off	Backplane 1
Off	On	Off	Backplane 2
Off	Off	On	Backplane 3
Off	On	On	Backplane 4

**Factory Default: All On**

SW	Function	Off	On
S8	<b>EMS Override</b>	<b>Local</b>	<b>Remote</b>

**Factory Default: All On**

SW1 Configuration			
SW	Function	off	On
S1	<b>Reserved</b>	-	<b>Default</b>
S2	<b>Reserved</b>	-	<b>Default</b>
S3	<b>Reserved</b>	-	<b>Default</b>
S4	<b>Reserved</b>	-	<b>Default</b>
S5	<b>Reserved</b>	-	<b>Default</b>
S6	<b>ASI INV Test</b>	Disabled	<b>Enabled</b>
S7	<b>Freq Test</b>	Disabled	<b>Enabled</b>
S8	<b>Sync Interval</b>	Custom	<b>Normal</b>

**Factory Default: All On**



#### Rear Panel Switches



#### FRONT PANEL LEDS

Front LED	Function	Color	Description
OK	DLT710 Module Status	Green	No alarm, Normal operation
		Yellow	Minor alarm
		Red	Major alarm
GOOD	Test Status	OFF	Test sequence not completed and no errors detected
		Green	Test completed with no errors
		Yellow	Inverted ASI signal detected.
		Red	Test sequence complete, one or more errors found
3G HD SD ASI ATSC	Checker Video Rate*	OFF	Indicated rate not selected or not detected
		Yellow	Indicated rate enabled, not yet tested
		* Yellow	Indicated rate detected, testing in progress
		Green	Indicated rate enabled, test complete with no errors
		* Green	Indicated rate detected, but not being tested
		Red	Selected rate enabled, signal not being detected, one or more errors found
		* Red	Selected rate detected, one or more errors found
		OFF	Indicated rate not enabled
3G HD SD ASI ATSC	Generator Video Rate*	Green	Indicated rate enabled, not yet generated
		* Green	Indicated rate is being generated

\*Front panel GEN/CHK toggle switch determines whether the LEDs operate as Generator status indicators or Checker status indicators.

#### REAR PANEL LEDS

Rear LED	Function	Color	Description	
REC	Receiver Status	OFF	Backplane input is selected	
		Green	Input present at BNC	
		Yellow	Double termination or low input level detected	
GEN	Generator Status	n Red	BNC input is enabled, but no signal is present	
		OFF	Generator is inactive	
EMS	DigiLink Manager System Status	Green	Generator is active	
		OFF	The DLT710 module is in local mode and its configuration is controlled by the onboard configuration switches	
OK	Module Status	Green	The DLT710 module is in remote mode and the configuration has been set by DigiLink Manager. When in remote mode, the actual configuration of the module will likely not match the settings of the configuration switches and changing the configuration switches will have no effect on the module operation	
		OFF	No Alarm, Normal Operation	
OK		Yellow	Minor Alarm	
		Red	Major alarm	

\* Flashing green | \* Flashing yellow | \* Flashing red

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