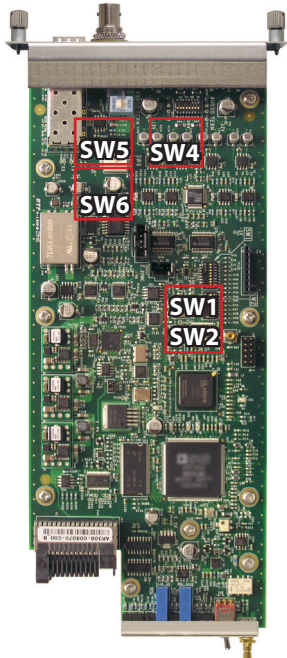




DigiLink DLC170AD - Composite Video (NTSC/PAL) and Analog Audio to SDI Conversion with Optical Transmitter

Artel ships the DLC170AD configured as follows:

- Analog audio source with 600 ohm termination
- Analog video source with 75 ohm termination
- Automatic gain control enabled
- Analog video pedestal enabled
- 24-bit audio resolution, +20 dBm (600 ohms) peak audio level without clipping
- Audio embed enabled into destination group #1
- Analog video enabled through the BNC connector
- SDI grey field, at the NTSC rate, enabled if no video is present
- Audio mode set to 24 bits
- Alarm enabled for no SFP present
- Alarm disabled for no video present
- EMS override enabled (DigiLink Manager can change the DLC170AD configuration)



Front Panel Configuration Switches



EQ Video input cable length equalization

LVL Video input level adjustment

EQ and LVL must be adjusted; see installation manual for more information

Configuration Switch Functions

- SW1** Controls various video functions, such as the video characteristics (AGC, pedestal, standby signal type, and line rate) and the loss of video alarm
- SW2** Enables audio embedding and controls various audio characteristics (such as the destination group), the SFP alarm enable, 20 or 24-bit audio resolution, and the EMS enable
- SW4** Controls the termination of the analog audio input signals
- SW5** Controls the termination of the analog video input signal
- SW6 (Rotary Switch)** Controls the peak analog audio level that the DLC170AD can manage without clipping

DIP SWITCH CONFIGURATIONS

SW1 Configuration

	Function	Off	On
S1	Pedestal on	Disabled	Enabled
S2	Video AGC	Disabled	Enabled
S3	Reserved	-	Must be On
S4	Reserved	-	Must be On
S5	Reserved	-	Must be On
S6	Standby Signal	Artel•	SDI Grey
S7	SDI Standby	625 Line	525 Line
S8	Alarm on Loss of Video	Enabled	Disabled

*Non-video keep-alive signal

Factory Default: All On

SW4 Configuration Analog Audio Termination

	Function	Off	On
S1	Audio Ch A	High Z	600 ohm
S2	Reserved	-	Must be On
S3	Audio Ch B	High Z	600 ohm
S4	Reserved	-	Must be On
S5	Audio Ch C	High Z	600 ohm
S6	Reserved	-	Must be On
S7	Audio Ch D	High Z	600 ohm
S8	Reserved	-	Must be On

Factory Default: All On

SW2 Configuration

	Function	Off	On
S1	Audio Embed	Disabled	Enabled
S2	Reserved	-	Must be On

S3	S4	Audio Destination
On	On	Group 1
Off	On	Group 2
On	Off	Group 3
Off	Off	Group 4

	Function	Off	On
S5	Audio Resolution	20-bit	24-bit
S6	Reserved	-	Must be On
S7	SFP Alarms	Disabled	Enabled
S8	EMS Override	Local Control	Remote Control

Factory Default: All On

SW5 Configuration Analog Video Termination

	Function	Off	On
S5	Video Termination	High Z	75 ohm

Factory Default: On

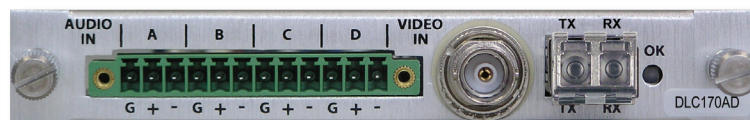
SW6 Configuration Analog Audio Termination

POS	Function
0	+10 dBm
1	+12 dBm
2	+14 dBm
3	+16 dBm
4	+18 dBm
5	+20 dBm
6	+22 dBm
7	+24 dBm

Factory Default: +20 dBm



Install SFP



DLC170AD FRONT PANEL LEDS

LED	Function	Color	Description
OK	DLC170AD Module Status	OFF	If power is applied to the system, an internal fault with the DLC170AD may exist
		● Green	Normal operation
		● Yellow	If no other status LEDs indicate a minor alarm, then a temperature alarm is indicated
		● Red	Major alarm exists that requires immediate attention. TX status LED may provide fault information. If not, the alarm may be the result of an internal error
EMS	DigiLink Manager System Status	OFF	The DLC170AD module is in local mode and its configuration is controlled by the onboard configuration switches
		● Green	The DLC170AD 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
TX	Transmitter Status	OFF	Transmitter is disabled. The DLC170AD is being used to feed another module through the chassis backplane
		● Green	Normal operation (input signal present)
		● Yellow	The DLC170AD cannot detect a video input signal and is transmitting the standby signal. Either an SDI grey screen or a non-video keep-alive signal is transmitted as the standby signal according to the setting of switches SW1: S6, S7
		* Red	No optical SFP is installed or an optical SFP TX fault exists
Video	Video Signal Status	OFF	No video input is detected
		● Green	Video input detected
		● Yellow	Video overload
		● Red	Major alarm condition exists because DLC170AD is unable to convert the analog video
Audio A/B	Audio Signal Status for A and B Channels	OFF	Embedding disabled (SW2, switch S1 is OFF)
		● Green	Normal operation
		● Yellow	Embedding enabled and the audio peak is between -6 dBFS and -1 dBFS
		● Red	Embedding enabled and the audio peak is > -1 dBFS (overload)
Audio C/D	Audio Signal Status for C and D Channels	OFF	Embedding disabled (SW2, switch S1 is OFF)
		● Green	Normal operation
		● Yellow	Embedding enabled and the audio peak is between -6 dBFS and -1 dBFS
		● Red	Embedding enabled and the audio peak is > -1 dBFS (overload)

* Flashing Red

Sales



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