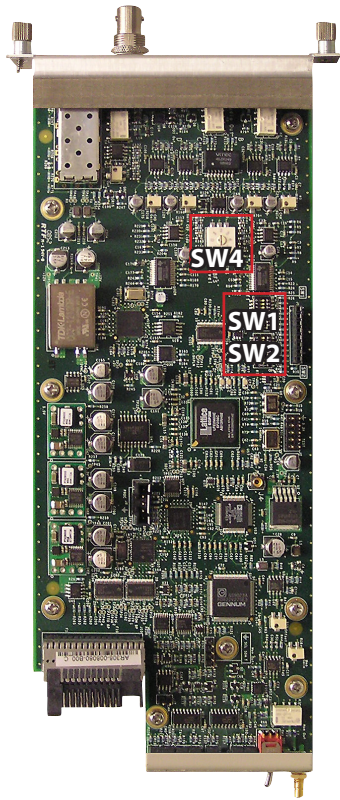


DL4000 VIDEO TRANSPORT SYSTEM MODULE
**DLC170DA
 Quick Start Guide**

Configuration Switch Functions

- SW1** Controls various video functions of the DLC170DA, such as source selection (SFP, backplane), video characteristics (pedestal) and the loss of video alarm
- SW2** Controls various audio characteristics of the DLC170DA (output enable, format, and source group), determines if the DLC170DA acts as a repeater, and enables the EMS override function
- SW4 (Rotary Switch)** Controls the peak analog audio level that the DLC170DA produces

ArTel ships the DLC170DA configured as follows:

- Video source is optical SDI from the SFP
- Analog video pedestal enabled
- Analog video enabled through the BNC connector
- Alarm disabled for no video present
- Analog audio output
- +20 dBm (600 ohms) peak audio level
- Audio de-embed enabled from group #1
- Optical repeating disabled
- EMS override enabled (DL Manager can change the DLC170DA configuration)

DIP Switch Configurations

SW1 CONFIGURATION			
	Function	Off	On
S1	<i>Pedestal</i>	Disabled	<i>Enabled</i>
S2	<i>BNC Out Format</i>	SDI	<i>Analog</i>

Factory Default: All on

S3	S4	S5	SDI Source Select
<i>On</i>	<i>On</i>	<i>On</i>	<i>SFP Optical Receiver</i>
Off	Off	Off	Backplane 1
Off	On	Off	Backplane 2
Off	Off	On	Backplane 3
Off	On	On	Backplane 4
On	Off	Off	Reserved
On	On	Off	Reserved
On	Off	On	Reserved

Factory Default: All on

	Function	Off	On
S6	<i>Reserved</i>	-	<i>Must be On</i>
S7	<i>Reserved</i>	-	<i>Must be On</i>
S8	<i>Loss of Video Alarm</i>	Enabled	<i>Disabled</i>

Factory Default: All on

SW2 CONFIGURATION			
	Function	Off	On
S1	<i>Audio De-embedding</i>	Disabled	<i>Enabled</i>
S2	<i>Audio Output Format</i>	AES	<i>Analog</i>

Factory Default: All on

S3	S4	Audio Destination
<i>On</i>	<i>On</i>	<i>Group 1</i>
Off	On	Group 2
On	Off	Group 3
Off	Off	Group 4

Factory Default: All on

	Function	Off	On
S5	<i>Reserved</i>	-	<i>Must be On</i>
S6	<i>Reserved</i>	-	<i>Must be On</i>
S7	<i>SFP Repeater</i>	Enabled	<i>Disabled</i>
S8	<i>EMS Override</i>	Local Control	<i>Remote Control</i>

Factory Default: All on

SW4 CONFIGURATION PEAK AUDIO LEVEL	
POS	Function
0	+10 dBm
1	+12 dBm
2	+14 dBm
3	+16 dBm
4	+18 dBm
<i>5</i>	<i>+20 dBm</i>
6	+22 dBm
7	+24 dBm

Factory Default: +20 dBm



DLC170DA Front Panel LEDs

LED	Function	Color	Description
OK	DLC170DA Module Status	OFF	If power is applied to the system, an internal fault with the DLC170DA may exist
		●	Normal operation
		●	RX status LED may provide fault information. If no other status LEDs indicate a minor alarm, then a temperature alarm is indicated
		●	Major alarm exists and requires immediate attention. TX, RX, or VIDEO status LEDs may provide more information on the fault. The alarm may also be the result of an internal error
EMS	DL Manager System Status	OFF	The DLC170DA module is in local mode and its configuration is controlled by the onboard configuration switches
		●	The DLC170DA module is in remote mode and the configuration has been set by the EMS. 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 DLC170DA is not being used to repeat the received optical signal
		●	Normal operation (input signal is present). The DLC170DA is being used to repeat the received optical signal
		●	The DLC170DA cannot detect an optical video input signal to repeat and is transmitting the non-video keep-alive standby signal
		* ⁽¹⁾	Major alarm condition exists because no optical SFP is installed or an optical SFP TX fault exists
RX	Receiver Status	OFF	Video input from the backplane (not the SFP) selected
		●	Normal operation (optical video signal is detected)
		●	Non-video keep-alive signal is being received
		*	Receive optical power is high
		* ⁽¹⁾	Major alarm condition exists because of low optical receive power or because no SFP is installed
Video	Video Signal Status	OFF	No video input is detected
		●	Video input detected
		●	ASI signal present on the BNC output; the output is selected for SDI and the received digital video signal is DVB-ASI
		●	Input video is outside the ± 100 ppm range, or non-SDI video signal in analog mode
Audio ANA	Analog Audio Signal Status	OFF	Analog audio de-embedding is disabled (SW2, switch S1 is OFF and/or SW2, switch S2 is OFF)
		●	Analog audio de-embedding is enabled and a valid signal is present
		●	Analog audio de-embedding is enabled and errors are detected in the embedded audio signals
		●	Analog audio de-embedding is enabled and no audio program is detected in the selected group
Audio AES	AES Audio Signal Status	OFF	AES audio de-embedding is disabled (SW2, switch S1 is OFF and/or SW2, switch S2 is ON)
		●	AES audio de-embedding is enabled and a valid signal is present
		●	AES audio de-embedding is enabled and errors are detected in the embedded audio signals
		●	AES audio de-embedding is enabled and no audio program is detected in the selected group

1. Loss of video will be a major alarm if the "Video Loss Alarm" is enabled (SW2, switch S8 is OFF).

* Flashing yellow | * Flashing red

Install SFP

