

DL4000 VIDEO TRANSPORT SYSTEM MODULE

DLC410

Quick Start Guide

DLC410 in slot X 6
Module Settings ?

1	IP Address: <input type="text" value="192.168.1.201"/>	3	Video Mode:
	Netmask: <input type="text" value="255.255.255.0"/>		<input type="radio"/> ASI <input checked="" type="radio"/> SD SDI
	Gateway: <input type="text" value="192.168.1.1"/>		
2	VLAN: <input checked="" type="radio"/> Enable <input type="radio"/> Disable	4	Video Alarm:
	VLAN ID: <input type="text" value="0"/>		<input checked="" type="radio"/> Enable <input type="radio"/> Disable
	VLAN Priority: <input type="text" value="0"/>		
		5	SFP Alarm:
			<input checked="" type="radio"/> Enable <input type="radio"/> Disable

IP Address of DLC410 Module

- Address that responds to "Pings"
- Independent of the video "Source IP Address" and "Destination IP Address" below

VLAN ENABLE/DISABLE and Configuration

- Specifies whether VLAN tag is populated on outgoing Ethernet frames
- Specifies VLAN ID that is set on outgoing Ethernet frames
- Specifies VLAN priority (1 through 7; 1=low, 7=high)
- VLAN ID/VLAN priority only display when VLAN Enable selected

VIDEO MODE for Channel A and B

Specifies video mode for all channels (ASI or SDI/SDTI)

ENABLE ALARM on loss of active video

If enabled, alarm will activate if active video signal is lost

ENABLE ALARM ON SFP not present

If enabled, alarm will activate if an SFP is not installed

X = slot 1-12

? DLC410 Module or Receiver or Transmitter Settings Help

Receiver Settings ?

Channel A		Channel B	
1	Receiver: <input checked="" type="radio"/> Enable <input type="radio"/> Disable	1	Receiver: <input checked="" type="radio"/> Enable <input type="radio"/> Disable
2	Source IP Addr: <input type="text" value="10.10.10.20"/>	2	Source IP Addr: <input type="text" value="10.10.10.20"/>
3	Multicast Group: <input type="text"/>	3	Multicast Group: <input type="text"/>
4	Port: <input type="text" value="128"/>	4	Port: <input type="text" value="28"/>
5	Recovery Buffer: <input type="radio"/> Sm <input checked="" type="radio"/> M <input type="radio"/> Lg	5	Recovery Buffer: <input type="radio"/> Sm <input checked="" type="radio"/> M <input type="radio"/> Lg

CHANNEL A (OR B) RECEIVE Configuration

Configures settings for data received from DLC410 IP network

1 Enable Channels to RECEIVE video from network
2 IP Address of DLC410 or SMPTE 2022 based ethernet transmitter
3 IP MULTICAST GROUP Address

Special multicast address DLC410 receives traffic from during multicast reception

4 TC/IP PORT Address

Logical TCP port address that DLC410 receives traffic on

5 RECOVERY BUFFER Size to handle late arriving and misordered packets (see DLC410 manual for more info)

- Large setting provides greater ability to receive late and misordered packets
- Recovery Buffer Size and FEC settings determine DLC410 latency (see manual)

Video Output Selection

		Backplane Slot			
		1	2	3	4
1	OutA	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	OutB	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Determines which backplane slots receive video data is routed to:

- Select 1 of 4 other slots to route Channel A receive video data to
- Select 1 of 4 other slots to route Channel B receive video data to
- For DL4000, displays backplane slots 1-4
- For DL4300, displays backplane slots 1-4, 5-8, or 9-12

Transmitter Settings ?

Channel A		Channel B	
1	Transmitter: <input checked="" type="radio"/> Enable <input type="radio"/> Disable	1	Transmitter: <input checked="" type="radio"/> Enable <input type="radio"/> Disable
2	Video Source: Slot <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> InA BNC	2	Video Source: Slot <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> InB BNC
3	Destination IP Addr: <input type="text" value="10.10.10.20"/>	3	Destination IP Addr: <input type="text" value="10.10.10.20"/>
4	Port: <input type="text" value="96"/>	4	Port: <input type="text" value="9"/>
5	Type of Service: <input type="text" value="0"/>	5	Type of Service: <input type="text" value="0"/>
6	Time to Live: <input type="text" value="1"/>	6	Time to Live: <input type="text" value="1"/>
7	FEC Mode: <input type="radio"/> Col <input checked="" type="radio"/> RowCol <input type="radio"/> None Column: <input type="text" value="128"/> Row: <input type="text" value="8"/>	7	FEC Mode: <input checked="" type="radio"/> Col <input type="radio"/> RowCol <input type="radio"/> None Column: <input type="text" value="128"/>
8	ASI Bandwidth Limit: <input type="text" value="255"/>	8	ASI Bandwidth Limit: <input type="text" value="20"/>
9	M2TS Packing: <input type="radio"/> 1 <input type="radio"/> 4 <input checked="" type="radio"/> 7	9	M2TS Packing: <input type="radio"/> 1 <input type="radio"/> 4 <input checked="" type="radio"/> 7

CHANNEL A (or B) TRANSMIT Configuration
1 Enable Channels to TRANSMIT video to network
Transmit Video Source

- TRANSMIT video source BNC or other slot
- Selects source of transmit video
- For DL4000, displays backplane slots 1-4
- For DL4300, displays backplane slots 1-4, 5-8, or 9-12

3 Destination IP Address of DLC410 or SMPTE 2022 based ethernet receiver
4 Logical TCP port address that IP packets are transmitted on
5 Specifies IP Type of Service (TOS) bits for transmit data

Specifies IP priority level to route traffic through network to destination

6 Specifies maximum number of router "hops" that network switches allow before dropping packets
7 Specifies Forward Error Correction (FEC) settings

- Specify Column or Row/Column or No FEC
- Specify FEC matrix (row and column) size (maximum 1,500)

8 Specifies ASI bandwidth limiting (ASI mode only)

- If transmit ASI traffic exceeds specified bandwidth, traffic will be throttled
- ASI bandwidth limit/M2TS packing displays when ASI mode selected (module settings)

9 Specifies Number of MPEG frames per IP frame (ASI mode only)

- For lowest latency, choose 1 (least efficient use of bandwidth)
- For most efficient use of bandwidth, choose 7



DLC410 Front Panel LEDs

LED	Function	Color	Description
OK	DLC410 Module Status	OFF	No power or power fault
		●	No alarm
		●	Minor alarm
		●	Major alarm
SDI	Operating Mode	OFF	ASI Mode
		●	SDI Mode
TX	Transmitter Status (A, B)	●	Normal operation
		●	SFP TX failure exists
		*	No SFP is installed
RX	Receiver Status (A, B)	●	Normal operation
		*	A low receive power condition exists
ACT	Ethernet Activity	●	Link present
		*	Link activity
OUT A, OUT B	RX Channel Status	OFF	Channel is disabled
		●	Video is received
		*	Successful FEC
		* *	Unsuccessful FEC
		●	Provisioned but not receiving IP packets
		●	Improper video input
IN A, IN B	TX Channel Status	OFF	Channel is disabled
		●	Video is received
		●	No signal detected
		●	Improper video input
		*	DVB-ASI rate limited
CHANNEL SELECT MON Switch	Monitor Video Channel On SMB Connector		Pressing Monitor Switch indicates which video channel (IN A, B or OUT A, B) is output on MON SMB Connector. Pressing Monitor Switch while LEDs are flashing will advance monitor output to next video channel

Flashing green * | Flashing red *

Install SFPs

