



DigiLink DLC450 - HD, SD, ASI, and Gig-E Transport Over 10 Gig Ethernet Gateway

Artel ships the DLC450 configured as follows:

Module Settings

1 Operational Mode: ☒ Receive ☐ Transmit

2 Video: ☒ Enable ☐ Disable

3 1G:

4 Jumbo Frames: ☒ Enable ☐ Disable

5 IP Address:

Netmask:

Gateway:

6 Video Alarm: ☐ Enable ☒ Disable

7 10G SFP+ Alarm: ☒ Enable ☐ Disable

8 1G SFP Alarm: ☐ Enable ☒ Disable

Video Signal Types

1 HD-SDI: ☒ Enable ☐ Disable

2 SD-SDI: ☒ Enable ☐ Disable

3 ASI: ☒ Enable ☐ Disable

Receiver Settings

1 Source IP Addr:

2 Multicast Group:

3 Port:

4 Recovery Buffer: ☒ Sm ☐ Lg

Transmitter Settings

1 Video Source:

2 Destination IP Addr:

3 Port:

4 Time To Live:

5 HD-SDI FEC Settings

FEC Mode: ☐ Col ☐ RowCol ☒ None

Column: Row:

SD-SDI FEC Settings

FEC Mode: ☐ Col ☐ RowCol ☒ None

Column: Row:

ASI FEC Settings

FEC Mode: ☐ Col ☐ RowCol ☒ None

Column: Row:

Module Settings Configuration

1	Operational Mode	Sets Operational Mode relative to the 10G Video Circuit.
2	Video	Enable/disable video transport over the 10G link.
3	1G	Ethernet Port for 1G traffic. Options are disabled, SFP, or backplane where available.
4	Jumbo Frames	Enables support for IP Frames that are greater than 1518 bytes and up to 9216 Bytes in size.
5	IP Address	IP address Module uses as the source address when Transmitting Video over the 10G interface (see DLC450 manual for further details).
6	Video Alarm	Enable Alarm on loss of active video.
7	10G SFP+ Alarm	Enable Alarm on 10G SFP+ not present.
8	1G SFP Alarm	Enable Alarm on 1G SFP not present.

Video Signal Types Configuration

1	HD-SDI	Discretely enables output of HD-SDI.
2	SD-SDI	Discretely enables output of SD-SDI.
3	ASI	Discretely enables output of ASI.

Receiver Settings Configuration

1	Source IP Addr	IP address that Module uses in Unicast mode to receive from.
2	Multicast Group	Multicast address that Module uses in Multicast mode to receive from.
3	Port	Port number setting must match the Port number setting on the TX module that you wish to receive from.
4	Recovery Buffer	Specifies small or large recovery buffer size. Buffer size determines latency. This is further determined by the Video format applied (see DLC450 manual for further details).

Transmitter Settings Configuration

1	Video Source	Sets input port for video to "In BNC" or available backplane inputs.
2	Destination IP Addr	Sets destination IP address to either the Multicast Group or the IP Address of the Transmitter
3	Port	Port number setting must match the Port number setting on the RX module that you wish to transmit to.
4	Time to Live	Sets number of route hops that a packet may make before it is dropped.
5	FEC Mode	Specifies Forward Error Correction (FEC) settings <ul style="list-style-type: none"> Specify Column or Row/Column or No FEC Specify matrix (row and column) size (maximum Row x Column: 3000(HD), 1500(SD), 100(ASI). (See DLC450 manual for further details.)






























* Note: Confirm your network settings before connecting to your network.

DLC450 Front Panel:

- Mon Mini BNC - In TX mode, this mini BNC outputs a copy of the ASI, SD-SDI, HD-SDI signal received on the BNC in connector on the Rear Panel. In RX mode, this BNC outputs a copy of the ASI, SD-SDI, HD-SDI signal sent out the BNC out on the Rear Panel.
- RST Pushbutton - Pressing, holding in for more than 4 seconds, and then releasing this button will reset the module interrupting data transmission through the module. Reset is similar to power-up sequence of module. No user configuration data is changed during this reset.



DLC450 FRONT PANEL LEDS

LED	Function	Color	Description
OK	Module Status	OFF	No power.
		 Green	No alarms.
		 Yellow	Minor alarm.
		 Red	Major alarm.
TX (Mode)	Transmitter Mode Indicator	OFF	Receiver mode is selected.
		 Green	TX Mode: Valid video format as configured in DL Manager.
		 Yellow	TX Mode: No video format detected as configured in DL Manager.
		 Yellow	TX Mode: In Unicast mode and no arp reply.
		 Red	TX Mode: No link.
RX (Mode)	Receiver Mode Indicator	OFF	Transmitter mode is selected.
		 Green	RX Mode: Valid video detected on 10G interface with correct IP configuration.
		 Yellow	RX Mode: No video input at receiver.
		 Yellow	Packet errors detected.
		 Red	RX Mode: No link.
1G	1G SFP Link	OFF	1G not enabled.
		 Green	Link established.
		 Green	Link established with activity.
		 Yellow	RX optical power high.
		 Yellow	1G Ethernet enabled, errors detected.
		 Red	No link.
		 Red	No SFP installed, low light, or loss of signal.
ASI	ASI Signal Mode Indicator	OFF	ASI disabled or other rate detected.
		 Green	ASI enabled and ASI detected.
		 Yellow	ASI enabled but no signal detected.
		 Red	Input fault or ASI not enabled but ASI detected.
SD	SD Signal Mode Indicator	OFF	SD disabled or other rate detected.
		 Green	SD enabled and SD detected.
		 Yellow	SD enabled but no signal detected.
		 Red	Input fault or SD not enabled but SD detected.
HD	HD Signal Mode Indicator	OFF	HD disabled or other rate detected.
		 Green	HD enabled and HD detected.
		 Yellow	HD enabled but no signal detected.
		 Red	Input fault or HD not enabled but HD detected.
 Flashing green		 Flashing yellow	 Flashing red
Note: Install an Artel SFP+ in socket A only. Install an SFP in Socket B only.			

DLC450 REAR PANEL LEDS

LED	Function	Color	Description
OK	Module Status	OFF	No power.
		Green	Normal operation.
		Yellow	Minor alarm.
		Red	Major alarm.
TX (Mode)	Transmitter Mode Indicator	OFF	Receiver mode is selected.
		Green	TX Mode: Valid video format as configured in DL Manager.
		Yellow	TX Mode: No video format detected as configured in DL Manager.
		* Yellow	TX Mode: In Unicast mode and no arp reply.
		Red	TX Mode: No link.
RX (Mode)	Receiver Mode Indicator	OFF	Transmitter mode is selected.
		Green	RX Mode: Valid video detected on 10G interface with correct IP configuration.
		Yellow	RX Mode: No video input at receiver.
		* Yellow	Packet errors detected.
		Red	RX Mode: No link.
TX (10G)	10G Transmitter Mode	OFF	Not valid during normal operation.
		Green	TX Mode: Normal operation.
		Red	TX Fault
		* Red	No SFP+ Installed
RX (10G)	10G Receiver Mode	OFF	Not valid during normal operation.
		Green	Link established.
		* Green	Link established with activity.
		Yellow	RX optical power high.
		Red	No link.
		* Red	No SFP+ installed, low light, or loss of signal.
TX (1G)	1G Transmitter Mode	OFF	1G not enabled.
		Green	Normal operation.
		Red	TX fault.
		* Red	No SFP installed.
RX (1G)	1G Receiver Mode	OFF	1G not enabled.
		Green	Link established.
		* Green	Link established with activity.
		Yellow	RX optical power high.
		* Yellow	1G Ethernet enabled, errors detected.
		Red	No link .
		* Red	No SFP installed, low light, or loss of signal.

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