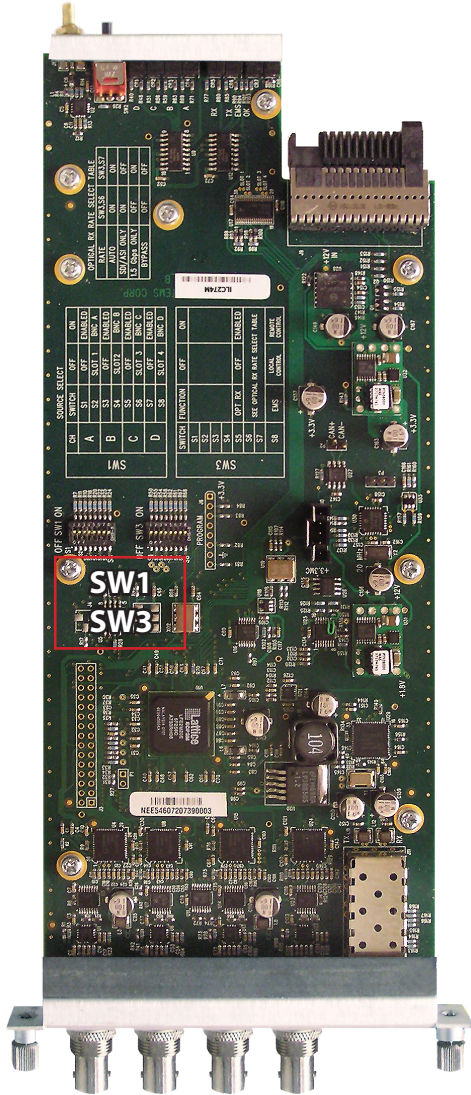# InfinityLink ILC274M - SD-SDI, ASI Digital Video 4 Ch TDM Multiplexer

Artel ships the ILC274M configured as follows:

- All four channels enabled
- BNC connector selected as the source for each channel
- Optical transmit (TX) enabled
- Optical receive (RX) disabled
- Loss of video alarm disabled
- EMS override enabled (IL Manager can change the ILC274M configuration)

SW1 Configuration

SW1	Function	Off	On
S1	Ch A Source	Off	*Enabled*
S2		Off	*BNC A*
S3	Ch B Source	Off	*Enabled*
S4		Off	*BNC B*
S5	Ch C Source	Off	*Enabled*
S6		Off	*BNC C*
S7	Ch D Source	Off	*Enabled*
S8		Off	*BNC D*

Factory Default: All on. Backplane source can be selected through IL Manager.

SW3 Configuration

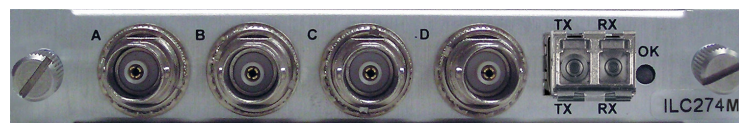| SW3	Function	Off	On
S1	*Alarm On Loss of Video*	Enabled	*Disabled*
S2	*Reserved*	-	*Must be On*
S3	*Reserved*	-	*Must be On*
S4	*Optical TX*	Disabled	*Enabled*
S5	*Optical RX*	Enabled	*Disabled*
S6	*Reserved*	-	*Must be On*
S7	*Reserved*	-	*Must be On*
S8	*EMS Override*	Local Control	*Remote Control*

Factory Default: All On

Configuration Switch Functions

SW1	Controls the channel (A, B, C and D) operation including disabling the time slot
SW3	Controls the loss of video alarm option, enabling/disabling of the optical receiver and enables the EMS override function
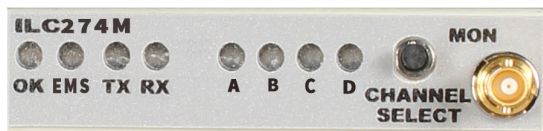
ILC274M FRONT PANEL LEDS

LED	Function	Color	Description
OK	ILC274M Module Status	OFF	If power is applied to the system, an internal fault with the ILC274M may exist
		🟢 Green	Normal operation
		🟡 Yellow	If no other status LEDs indicate a minor alarm, then a temperature alarm is indicated
		🔴 Red	If no other status LEDs indicate a major alarm, then an internal error is indicated, such as an onboard communications error or an onboard power error
EMS	IL Manager System Status	OFF	The ILC274M module is in local mode and its configuration is controlled by the onboard configuration switches
		🟢 Green	The ILC274M module is in remote mode and the configuration has been set by IL 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
		🟢 Green	Normal operation
		🔴 Red	SFP TX failure exists
		✳ Red	No SFP is installed
RX	Receiver Status	OFF	Receiver is disabled
		🟢 Green	Receiving a 270 Mb/s signal
		🟡 Yellow	Standby signal is being received
		✳ Yellow	Receive optical power is high
		🔴 Red	Incorrect input signal type (for example, not a 270 Mb/s signal)
		✳ Red	Possible causes: • No SFP is installed (RX and TX LEDs are both flashing) • A low receiver power condition exists • An SFP RX failure exists
A, B, C, D	270 Mb/s Channel Status	OFF	Input disabled
		🟢 Green	270 Mb/s video detected
		🟡 Yellow	No signal applied
		🔴 Red	Video input signal rate is outside the range (270 Mb +/- 100 ppm)

✳ Flashing yellow | ✳ Flashing red