

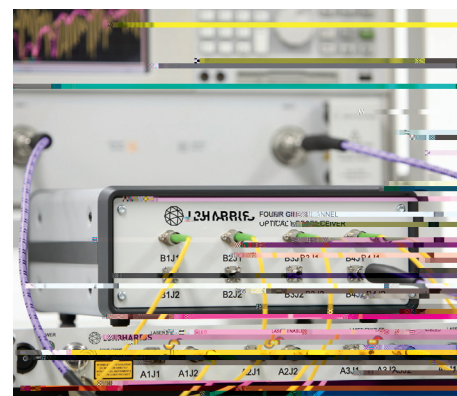


FAST. FORW

FOUR CHANNEL OPTICAL LINK

40 GHz bandwidth optical link suitable for antenna remoting and other applications

Frequency Range	0.5-40 GHz/ (2-20 GHz/ option available)
Maximum Insertion Loss	28 dB
Insertion Loss Slope	10 dB/m
Ripple on Insertion Loss Slope	±1 dB/m
Input P1dB	+17 dBm minimum
Maximum Input Power	+20 dBm
Spurious at -5dBm Input Power	-60 dBc
Harmonics at -5dBm Input Power	-60 dBc
VSWR	2.0:1 maximum
Warm Up Time	30 minutes maximum
Loss Stability After Warm Up	±0.5 dB
Transmitter Power Supply	+6 V, 0.5 V
Monitor & Control Interface	RS-232
Optical Connectors	FC/APC
Tx Monitor & Control Connector	9-pin D-sub plug



The Four Channel Optical Link is a wideband micro wave optical link carrying four parallel RF inputs to the transmitter, each modulated onto an optical carrier across four separate channels. The receiver demodulates the four optical carriers to generate four separate RF outputs.

This link uses external modulation for maximum dynamic range across the full 40 GHz bandwidth. Each channel of the link is fully isolated with separate laser, modulator and photodetector.

The receiver module can be alternatively operated to allow for use in remote locations.

MATCHING BETWEEN CHANNELS

Typical gain of all four channels of the link shows good matching between the channels and a graceful roll off slope of the response across the band. The frequency slope and loss of the link is independent of the link length up to hundreds of metres of fibre.

Four Channel Optical Link

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L3Harris reserves the right to amend specifications in the light of continuing development.

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