



Sat-Light Gold Series

GL7330 70/140MHz IF Optical Link



Features & Benefits

- Optimized for Professional Satellite Applications
- Wide Dynamic Range
- 10Km Transmission Distance
- Selectable AGC/MGC
- Front Panel Test Port
- Powerful Monitoring Features
- Compatible with all 1st Generation
 Sat-Light Products

Product Description

Foxcom's Sat-Light/Gold 70/140MHz IF Link offers a high performance, cost effective alternative to conventional coaxial-cabled systems. Sat-Light/Gold L-Band IFL operates in the range of 10 to 200MHz. The Gold Series L-Band link is designed for a wide range of satellite up and downlinking facilities whereby high CNR levels are required. Foxcom's high dynamic range DFB laser delivers exceptional signal quality for the most demanding of applications.

The new Sat-Light Gold series is compatible with first generation Sat-Light 7000 Series platform. The Gold Series support L-Band, 70/140MHz IF, Wideband (10-2200 MHz), 10MHz Reference, Redundancy, M & C, SNMP, Ethernet, and Serial Data Communication.

The link consists of a high input power optical transmitter, which receives the RF signal from an IF modem, and an optical receiver that connects to the antenna BUC.

All satellite modulation schemes are accommodated – digital or analog. Inherently low phase is achieved by direct modulation of the laser diode.

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All specifications are subject to change without notice. Rev 02/July 2013.

Sat-Light Gold Series

Specifications

GL7330 70/140MHz IF Optical Link [10 to 200MHz], 4dB Optical Budget

RF Specifications	Units	Typical	Minimum	Maximum
Frequency Range	MHz	10-200MHz		
Link Gain	dB	Adjustable	-10	+10
Amplitude Response @ Unity Gain 10-200MHz any 36 MHz	dB	±0.4dB ±0.3dB		±0.5dB
Gain Stability	dB/24hr	±0.25		±0.3
SFDR1	dB/Hz2/3		100	
CNR [any 36 MHz]1	dB	60	57	
Noise Figure (NF)2	dB	18		21
Output IP3 (OIP3) 3	dB	+20	+15	
hird Order InterModulation [IMD] ⁴	dBc	Adjustable	-55	-40
Group Delay Variation- linear .0 to 25 MHz .5 – 200MHz	ns	5 1		
nput Signal Range - Total Power	dBm		-30	0
RF Output Signal Range - Total Power	dBm		-25	0
Maximum Input without Damage	dBm		+15	
nput/Output Impedance	75 or 50			
X/RX Input/Output return loss 0 Ohm 75 Ohm	dB	-15 -12		-15 -12
RF Connector Type nput/Output		F, SMA		
Test Port		BNC		
Fest Port [front panel sample port]	dB	-20	-22	-18
Optical Specifications	Units	Typical	Minimum	Maximum
Optical Power Output	dBm	3	1	4
Optical Budget / Distance	dB/Km	1310 nm 1550 nm 8 15		
Optical Connector Types		FC/APC or SC/APC		
Optical Wavelength	nm	1310/1550/CWDM		
Electrical Specification	Units	Typical	Minimum	Maximum
Supply Voltage	Vdc	13	12.7	18
Supply Current [TX]5	Amps	0.4		
	Amps	0.4		
Supply Current (RX)			Minimum	Maximum
Supply Current (RX) Physical Specifications	Amps	0.3	Minimum -10	Maximum +55
Supply Current (RX) Physical Specifications Operating Temperature Range	Amps	0.3		
Supply Current (TX)5 Supply Current (RX) Physical Specifications Operating Temperature Range Dimensions [D×W×H]	Amps	0.3		
Supply Current (RX) Physical Specifications Operating Temperature Range Dimensions [D×W×H]	Amps Units Hours	0.3 Typical TX: 309,481 RX: 359,057	-10	+55
Supply Current (RX) Physical Specifications Operating Temperature Range Oimensions [D×W×H]	Amps Units Hours	0.3 Typical TX: 309,481 RX: 359,057 Bc @ 1 meter fibe	-10 r 4. Use	

Ordering Information		
GL7330-T – Gold 70/140MHz IF Transmitter		
GL7330-R – Gold 70/140MHz IF Receiver		