



Sat-Light Gold Series

GL75P 1PPS DC-30MHz/1PPS Optical Link



Features & Benefits

- DC-30MHz Digital Link
- Supports 1PPS time signals
- TTL input/output power into 50 Ohm
- 10Km transmission distance
- Compatible with all 1st generation Sat-Light products

Product Description

Global Foxcom's Sat-Light/Gold DGP Link offers a high performance, cost effective alternative to conventional coaxial, cable-based distribution systems. Sat-Light/Gold GL75-1PPS Link is designed to transfer any signal (analogue or digital) with a frequency of up to 30MHz. 1PPS as well as other sync or data signals can be transported over long distances. Global Foxcom uses a high dynamic range DFB laser and ultrafast processing to provide minimum jitter and delay.

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

The link consists of a GL7E-T optical transmitter and a GL7030R optical receiver.

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Specifications

GL75P 1PPS Optical Link; [DC-30MHz], 4dB Optical Budget

RF Specifications	Units	Typical	Minimum	Maximum
Signal type		Digital/1PPs		
Frequency range		DC-30MHz		
Link gain	dB	Adjustable	-10	+1
Amplitude response @ unity gain 2-30MHz	dB			±2dB
SFDR	dB/HZ/2/3		100	
OIP3	dBm	+30	+20	
Noise figure	dB	20		23
Jitter	ns			2
Input signal range -	V		0	5
Output signal range	V		0	5
Maximum input without damage	V	15		
Input/Output impedance	50			
RF connector type: Input/Output		BNC50		
Optical Specifications	Units	Typical	Minimum	Maximum
Optical power output	dBm	3	1	4
Optical budget / distance 4 dB optical budget	dB/Km	1550 nm 15		
Optical connector types		FC/APC		
Optical wavelength	nm	1550		
Electrical Specifications	Units	Typical	Minimum	Maximum
Supply voltage	VDC	13	12.7	18
Supply current [TX]	Amps	0.4		
Supply current (RX)	Amps	0.3		
Physical Specifications	Units	Typical	Minimum	Maximum
Operating temperature range			-10	+55
Dimensions [D×W×H]				
MTBF	Hours	TX: 309, 481 RX: 359, 057		

Ordering Information

Model Number	Description
GL75PT-1PPS-1550-BNC50-FC	DC-30MHz, 1PPS Optical Transmitter, 1550nm laser. FC-APC optical connector, BNC50 Input connector.
GL75PR-BNC50-FC	DC-30MHz, 1PPS Optical Receiver, 4dB optical budget. FC-APC optical connector, BNC50 Output connector.