



Sat-Light Platinum Series

PL7SU30T / PL7SU30R4 S-Band Optical RF Link



Features & Benefits

- Supports up to a full 4dB optical budget
- S-Band frequency range: 2–4GHz
- Powerful management capabilities via a front panel LCD and rack-mounted SNMP
- User monitoring and control of required IMD levels
- Variety of RF and optical connectors
- 1550nm and CWDM ITU Grid laser options are available for longer fiber runs and single fiber multiplexing solutions

Product Description

Global Foxcom's Platinum S-Band products are designed to meet the increasing demand for modularity and highperformance in a small form factor for superior long-distance transmission. With high RF input power and wide dynamic range, the link is designed to provide full specification service up to a full 4dB optical budget with the PL7SU30R4 receiver.

Utilizing Global Foxcom's **DigiRF** technology, the user has full control of all important functions for setup, operation, and analysis via the front panel LCD or via the associated sub-rack SNMP capability.

In addition **IMizer**, an automated adjustable link calibration embedded system, enables the user to align the RF links IMD/CNR to specific linearity performances without a two-tone test. Select the desired IMD for the optical transmitter, either locally or remotely, **IMizer** automatically adjusts the laser drive to meet the IMD requirements.

Each low profile individual transmitter or receiver can be "hot swapped" in the sub-rack chassis maintaining the best subsystem uptime capability. Each module contains an individual processor to maximize specification performance at all times under demanding user applications.

The **PL7SU30T** transmitter and **PL7SU30R4** receiver are designed for chassis mounting. The associated Platinum chassis, model PL7010, has 12 active slots, one main control processor (MCP) slot and two redundant power supplies. No fans are required even under full sub-rack loading and full LNB powering.

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Specifications

Gain Variation over temperaturedB ± 1.5 SFDR2dB/Hz2/3100SFDR3100SFDR3100SFDR3100SFDR3100SFDR3100SFDR3100SFDR3100SFDR3100SFDR3100SFDR3100SFDR3100SFDR3SF	Maximum	Minimum	Typical	Units	RF Specifications
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EMI Rating FCC Class B CE Mark			FCC Class B CE Mark		
Physical Specifications		10			
		-10			
Storage Temperature Range ºC -4 Relative Humidity 95% non-condensing	+85	-45		ōC	

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Sat-Light Platinum Series

Altitude	ft / Km	10,000 [3.08] operating ¹²
		14,000 [12.2] non-operating
Dimensions [D×W×H]	ins/cm	12×0.8×4 / 30.5×2×10.2
Weight	lbs./Kg	0.5 / 0.23
MTBF	Hours	TX: 309, 481
		RX: 359,057
MTTR	Hours	0.083
Shock & Vibration		Designed for normal transportation environment per section 514.4
		MIL-STD-810E. Designed to withstand 20G at 11 ms [½ sine pulse] in
		non-operating configuration.

- ^{1.} Within flatness spec
- ^{2.} -5dBm RF input, link gain = 0 dB, IMD=-40 dBc @ 3 dB opt. budget [0 dBm optical input & max. RF input]
- ^{3.} -25dBm RF input, link gain =20 dB, IMD=-50 dBc @ 3 dB opt. budget [0 dBm optical input & min. RF input]
- ^{4.} User adjustable
- ^{5.} -5dBm RF in @ IMD=-50dBc
- 6. Direct modulation utilized
- ^{7.} Alarm trip point: RED -2 dBm, AMBER -33 dBm
- ^{8.} @ 0dB optical loss
- ^{9.} @ 3dB optical loss
- ^{10.} -45dBm minimum input
- ^{11.} Under 10^o add 120 mA [laser heating]
- ^{12.} With standard adiabatic derating at 2ºC/1000ft. [0.3 Km.]

All specifications are subject to change without notice.

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