



## Sat-Light Platinum Series

# PL7440T/PL7440R16 RF Wideband Link



#### **Features & Benefits:**

- Supports more than 45Km. distance [70Km with the PL7440T1550]
- Wideband: 10–3000 MHz
- Powerful management capabilities via a front panel LCD and rack mounted SNMP
- User control and setting of required IMD level
- 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 Wideband products are designed to meet the increasing demand for modularity and high-performance 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 16 dB optical budget with the PL7440R16 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. The **IMizer** requires the use of a correction factor table above 2.5 GHz.

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 PL7440T transmitter and PL7440R16 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**

Wideband PL7440T [PL7440T1550] / PL7440R16 RF Link

Wide Power Range	16 dp Ontica	I Dudget [/EVm	1210nm a	nd 70Vm 1EE0nml	1
wide Power Kange.	. TO OR Optica	II Buaget 145km:	-1310nm a	na /ukm-155unmi	i .

nimum	Maximum
	3000
	±2.25
	±0.3
	± 0.25
-1.5	+1.5
-2	2
	50
50	
30	35
13	18
-5	
	3
-55	-40
-50	0
	+15
-40	0
	-15
	-11
-22	-18
	10
nimum	Maximum
1.7/2.5	
,	
-14	-7
-14	-7
-14	-7
-14	-7 -55
-60	-55
-60	-55 +55
-60	-55
	-2 50 30 13 -5

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Altitude	ft / Km	10,000 [3.08 ] operating <sup>10</sup> 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 [ $\%$ sine pulse] in non-operating configuration.

- $^{1.}$  -15 dBm RF input, link gain = 15 dB, IMD=-40 dBc @ -7 dB opt. input
- <sup>2.</sup> -45 dBm RF input, link gain = 25 dB, IMD=-40 dBc @ -7 dB opt. input & min. RF input
- 3. User adjustable
- 4. -0 dBm RF in @ IMD=-40 dBc
- 5. -25 dBm RF input, link gain = 0 dB, IMD=-40 dBc @ 16 dB opt. budget [-13 dBm optical input-max. RF input]
- 6. Direct modulation utilized
- 7. Alarm trip point: RED -2 dBm, AMBER -53 dBm
- 8. -45 dBm minimum input
- 9. Under 10º add 120 mA [laser heating]
- <sup>10.</sup> With standard adiabatic de-rating at 2°C/1000ft. [0.3 Km.]
- <sup>11.</sup> -13 dB @10 to 3000MHz, -11dB @ 2500 to 3000MHz

All specifications are subject to change without notice.