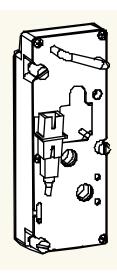
# PWRBlazer™ Scaleable Optical Node Optical Receiver

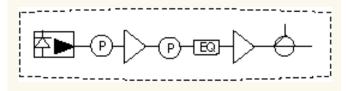


# **Product Description**

The compact PWRBlazer Scaleable Optical Node optical receiver module (model NRM 3811) uses state-of-the-art GaAs electronics for low noise as well as high sensitivity and gain. For convenient installation and removal, each module has a fiber connector attached to the top. There are also locations for two plug-in pads and a slope equalizer.

Two LED indicators on the module indicate power and optical input below –6 dBm, visually indicating that the module is operating. The module also features an RF output test point to allow troubleshooting of optical links.

# **Standard Configuration**



#### **Advantages**

- A 20 dB directionally coupled RF test point and a VDC optical power test point allow easy in-service testing of the optical path.
- An I<sup>2</sup>C interface provides a connection to the NMT 5044 status monitoring transponder for full network control and supervision.





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# **Optical Input**

Wavelength: 1300-1600 nm

Optical input range: -10 to +5 dBm

Optical return loss: > 45 dB Nominal optical input: 0 dBm

Noise: 7 pA/ Hz Responsivity: 0.85 A/W

Connectors:

SC/APC NRM 3811-AS SC/UPC NRM 3811-US FC/APC NRM 3811-AF FC/UPC NRM 3811-UF

#### **RF Output**

Nominal output level at minimum full gain: 46 dBmV<sup>1</sup>

Plug-in options: Slope equalizer and two interstage pads

Passband: 46-870 MHz Frequency response: ± 0.5 dB

Slope: 1.5 ± 1.5 dB C/N: 54.5 dB<sup>2</sup> C/CSO: 70.0 dB<sup>2</sup> C/CTB: 76.5 dB<sup>2</sup>

#### User Interface

Monitor points:

Optical power: 1 V/mW

RF output: -20 ±1 dB directionally coupled LED indicators: 2 power and optical input -6 dBm

#### **Status Monitor Interface**

Interfaces to optional NMT 5044 to allow remote control and monitoring via the NETWatch<sup>TM</sup> Element

Management System of:

Optical input power-monitor Optical alarm-monitor Module version-monitor Status monitor carrier on/off-control

# **Power Requirements**

Power consumption: 15 W

### **Physical**

Dimensions (with plug-ins): 5.5" W  $\times$  2.0" H  $\times$  1.9" D 14 cm W  $\times$  5.1cm H  $\times$  4.9 cm D

Weight: 0.7 lbs./0.3 kg

#### Notes:

1. At 0 dBm optical input with 4% modulation index

2. At 36 dBmV output level @750 MHz with 10 dB slope, 77 CW carriers, optical input= 0 dBm, without transmitter contribution