

# microwave photonic systems

MP-2350RX

## 3.5 GHz Linear Photonics Receiver



Designed to provide optical-to-electrical (O/E) conversion of broadband RF signals over a frequency range of 1.0 MHz to 3.5 GHz

The MP-2350RX is a comprehensive family of RF/Fiber Optic Receivers that are designed to provide optical-to-electrical (O/E) conversion of broadband RF signals over a frequency range of 1.0 MHz to 3.5 GHz. The receiver family is comprised of four model variants that operate over a unique frequency range. Refer to the part number generator tool on page two.

The utilization of the MP-2350RX, in conjunction with the appropriate MP-2350TX RF/Fiber Optic Transmitter, forms a broadband link capable of supporting the transmission of RF signals over singlemode optical fiber for use in a wide array of communication applications. The link applications include antenna remoting, time and frequency reference distribution, RF delay lines, telemetry tracking, and point-to-point RF transmission.

The receiver utilizes a high speed, low distortion PIN photodiode detector that is integrated with a broadband RF post amplifier. The unit provides the user with status monitoring through the use of an onboard processor that communicates to a host computer over an RS-232 or RS-485 I/O interface. The I/O parameters include received optical power, temperature and alarm status. In addition, the receiver's post-amplifier gain can be adjusted using the integrated variable RF attenuator. The attenuator's adjustment range is 0.0 dB to 35.0 dB in 0.5 dB increments. The receiver is also available without a RF post amplifier

Information: Call us toll-free at 888-868-8967 or email [info@b2bphotonics.com](mailto:info@b2bphotonics.com)

### Applications

- GPS RF Signal Distribution
- Antenna Remoting
- Satellite Radio
- L - Band SATCOM
- Wireless / PCS

### Features

- WDM & CWDM Compatible
- Wide Bandwidth, 1.0 MHz to 3500 MHz
- High Dynamic Range
- Low Noise Post Amp
- Status Monitoring RS-232 or RS-485
- 1 Year Full, 2 Year Limited Warranty

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MP-2350RX

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## Specifications

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| <p><b>Optical</b></p> <p>Operating Wavelength: 1200 nm to 1600 nm<br/>                 Input Level (max): + 5 dBm<br/>                 Responsivity (min): 0.85 A/W @ 1310 nm,<br/>                 0.90 A/W @ 1550 nm<br/>                 Input Backreflection: -55 dB to -63 dB<br/>                 Optical Fault Threshold: Factory preset to -12 dBm</p> <p><b>RF Channel</b></p> <p>Bandwidth: See Letter Designators<br/>                 Gain (min): 28.0 dB<br/>                 Flatness (max): ± 1.0 dB<br/>                 1 dB Comp. Level (min): + 18.0 dBm<br/>                 OIP-3 (min): + 28.0 dBm<br/>                 Noise Figure (max): 3.0 dB</p> | <p><b>General</b></p> <p>Power Supply: +8.0 to +24 Vdc, 350 mA max<br/>                 Optical Input: Pigtail, FC/APC, SC/APC or AVIM APC<br/>                 RF Output: SMA(f), 50 ohm or F(f), 75 ohm<br/>                 DC Connector: DB-15<br/>                 Operating Temperature: -40° C to +85° C<br/>                 Storage Temperature: -55° C to +85° C<br/>                 Local Alarm: LED - Optical Power Failure (Plug-in only)<br/>                 Optical Power Monitor: 1 V/m W ± 10%<br/>                 Remote Alarms: Open Collector and RS-232 or RS-485 Interface<br/>                 Standard Conformity: CE</p> |
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## Part Number Generator

