

## Key Features

- Built-in Optical Power Control Module
- Incoming Signal and Amplified Signal
- Power Monitor
- Optical Built-in Low Noise EDFA
- Wide Bandwidth
- Broadband Wavelength Range
- Good Performance Cost Ratio
- Highly Reliable and Durable

## Benchtop Casing



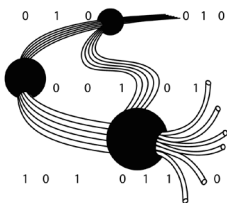
Others

## Description

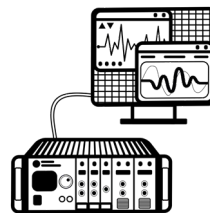
This general purpose optical receiver is designed for high speed testing of optical network systems and components. The standard receiver unit is able to detect modulation frequency up to 11.5GHz. A built-in low noise pre-amp EDFA provides the sufficient amplification for the incoming signal to ensure effective detection at the photoreceiver.

Additional features include a power monitor to control a variable optical attenuator. For complete SONET system applications, an optional 10G clock recovery circuit is available to accompany the standard receiver unit.

## Application



- SONET/SDH Systems
- CATV and 10G-Enet



- Transmitter/ Receiver components testing
- Optical Network System Bit Error Testing



ISO 9001 : 2015  
Certificate No.: CC 5346

Our product is manufactured under a HKQAA ISO 9001 certified quality management system. The ISO 9001:2015 certification applies to the Hong Kong production site only.

## Specifications

Model	Lightwave Receiver
Data Rate	155 Mb/s to 11 Gb/s
Input Power Level	-12 dBm to -3 dBm
Optical Wavelength	1290 nm to 1565 nm
Optical Sensitivity $2^{23} - 1$ BER < $10^{10}$	Typ. -19 dBm, Max. -17.5 dBm
Return Loss $S_{22}$	Typ. -12 dBm, Max. -5 dBm
High Frequency -3dB Corner	Typ. 11.5 GHz, Min. 8 GHz
Maximum Optical Input Power	0 dBm
Optical Power Measure Range	-40 dBm to 0 dBm
Coupling	AC-coupled to ground
Clock Output (optional)	Min. 500 mV
Clock Output Intrinsic Jitter (optional)	0.031 UI RMS

## General Parameters

	Value
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 70 °C
Dimensions	260(W) x 330(D) x 150(H) mm
RF Data Input Connector	SMA
Control	EDFA driving current
Display	EDFA laser output power, Average input power
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Input Fiber	SMF-28

## Ordering Information

Product Code	Lightwave Receiver
--------------	--------------------

Amonics undertakes continuous and intensive product development to ensure its product performance at the highest technical standards. As a result, the specifications in this document are subject to change without notice.

### Amonics Limited (Hong Kong)

14/F, Lee King Industrial Building, 12 Ng Fong Street,  
San Po Kong, Kowloon, Hong Kong  
Tel :+852 2428 9723 Fax :+852 2428 9704

### Beijing Amonics Co. Ltd. (Beijing)

Room 902, Unit 1 Joy Mansion, NO.99 Chaoyang North Road, Beijing China 100123  
Tel :+86 10 8478 3386 Fax :+86 10 8478 3396  
Email: [contact@amonics.com](mailto:contact@amonics.com) Website: [www.amonics.com](http://www.amonics.com)

