

Applications

- SONET/SDH Systems
- CATV and 10G-Ethernet
- Remote RF Analog Link
- Laboratory Testing and Transponder Evaluation



Description

The Lightwave Converter is a high performance integrated lightwave transmitter for building digital and analog optical transmission system. Having combined a high power laser, broadband Lithium Niobate external modulator and a high speed RF driver, the transmitter can be used for testing all types of optical network, from metro to long haul. In addition to standard 10G converter, higher performance systems such as tunable wavelength laser, RZ modulation or 40G bandwidth are also available.

Key Features

- Variable driver gain control
- Automatic and manual bias control
- Built-in stabilized DFB laser
- Optional built in tunable laser
- Good performance cost ratio
- Highly reliable and durable

Specifications

	Lightwave Converter
Modulation Bandwidth	5kHz to 11GHz
Input RF voltage	> 0.5V peak to peak
RF S11 Return Loss	> 10dB
Extinction	> 20dB, 50MHz or under > 13dB at 10GHz
Optical Input Power Handling	< 500mW
Rise Time	38ps
Fall Time	40ps
Modulation Laser Output Power	> 2mW

General Parameters

Parameters	Unit	Specifications
Operation Temperature	°C	0 to 40
Storage Temperature	°C	-10 to 70
Dimensions	mm	260(W) x330(D x 120(H)
RF Data Input Connector	-	SMA
Control	-	DFB laser output power, variable gain, DC bias
Display	-	DFB laser output power, Gain driver voltage (peak-to-peak), DC bias voltage
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Input Fiber	-	Panda PM fiber
Optical Output Fiber	-	SMF-28

Other Options

- Built-in tunable laser
- 40G modulation
- Built-in EDFA



Ordering Information

Product Code	Lightwave Converter
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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.

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