

# EG1310 Series V3 Fiber Optic Transmitter

Optical



## Description

The standard rack-mounted EG1310TX version 3 series 1310nm optical transmitters is designed for HFC and fiber to the home (FTTH) network application at present and in the future. This AM modulated transmitters have a wide bandwidth from 45 to 1003MHz and can be used for both analog and digital signals transmission. The EG1310TX series transmitters employ high performance DFB lasers with integrated optical isolator. The laser operates at a wide range of optical output power (from 3 to 15dBm), providing system designers a flexible loss budget.

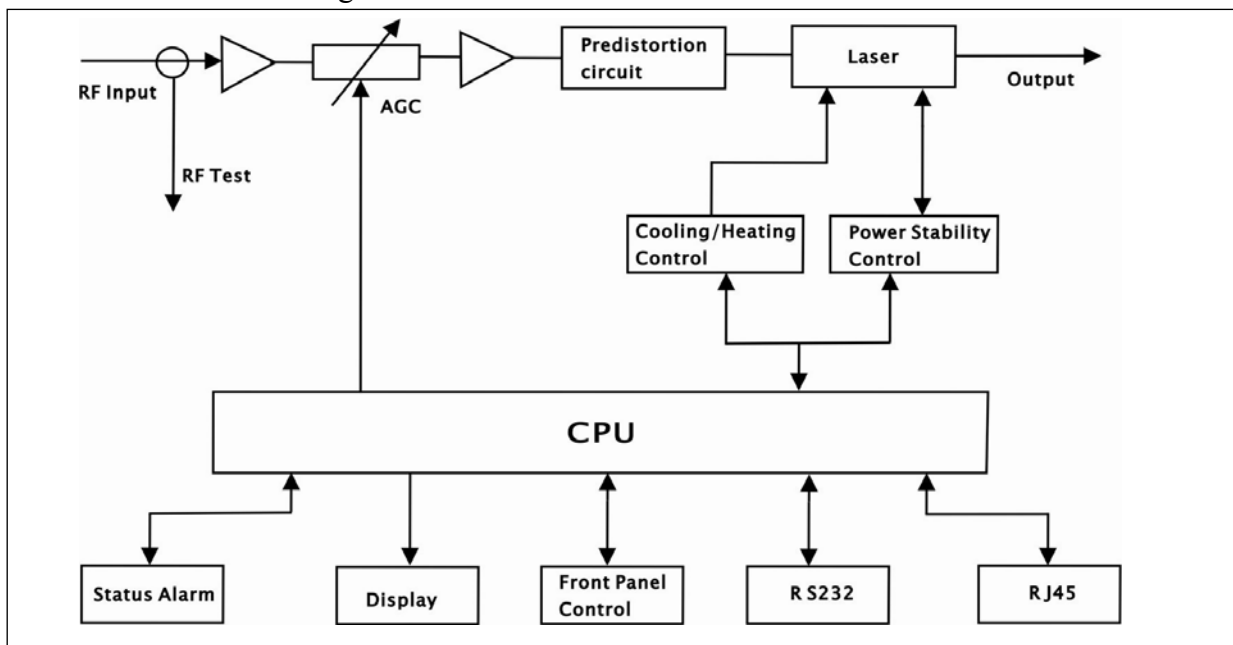


## Features

- High performance cooled DFB laser with integrated optical isolator
- 19" standard 1U rack design
- Bandwidth 45~1003MHz
- 3/6/8/9/10/11/12/13/14/15 dBm optical output power
- Dual inputs: Broadcast and Narrowcast
- Automatic/manual gain control (AGC/MGC)
- RF input test point
- LCD display/control functions
- Remote Management via SNMP and WEB UI
- Dual Power Supply module

## The Electroline Advantage

The EG1310TX series feature an integrated and advanced pre-distortion circuit that achieves superior CSO and CTB performance. The embedded MCU circuit monitors and controls status parameters and remote communication. All parameters can be accessed through front panel LCD or Ethernet interface for remote SNMP management.



**Bloc Diagram**

## SPECIFICATION SUMMARY

	Unit	Specification	
<b>Optical Performance</b>			
Wavelength	nm	1290 ~1310	
Output Power	dBm	3/6/8/9/10/11/12/13/14/15	
<b>RF Performance</b>			
Bandwidth	MHz	47 - 1003	
Impedance	Ohms	75	
Flatness	dB	≤ 0.75	
RF Input Level	dBμV	78±5	Without pre-distortion
	dBμV	83±5	With pre-distortion
Connector		F female	
<b>Link Performance</b>			
CNR	dB	≥ 51	
CSO	-dBc	≥ 60	
CTB	-dBc	≥ 65	
<b>Electrical and Physical Characteristics</b>			
Fiber Connector		FC/APC, SC/APC, SC/UPC	
Supply Voltage	Vac, 50 or 60 Hz.	110 to 254	
Power Consumption	Watts	< 30	
Dimensions	mm	370d x 483w x 44h	
Operating temperature range	°C	0 to 45	
Humidity	%	≤ 85, non-condensing	

## ORDERING INFORMATION

EG1310TX	-	XX	-	XX	-	XX	-	XX	-	x	-	xx
		Optical Power		Optical connector		Control Interface		Power Supply		Power Cord type		Version
		03 = 3dBm 06 = 6dBm 08 = 8dBm 09 = 9dBm 10 = 10dBm 11 = 11dBm 12 = 12dBm 13 = 13dBm 14 = 14dBm 15 = 15dBm		SA = SC/APC FA = FC/APC SU = SC/UPC		00 = None SN = Ethernet		SA = Single AC DA = Dual AC		A = America C = China E = Europe		V3