# EG1310 Series V3 Fiber Optic Transmitter



### 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.

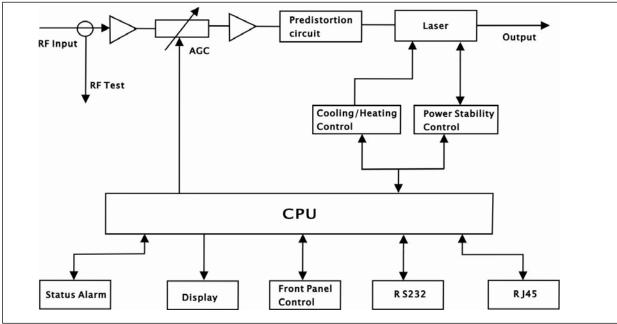
### The Electroline Advantage

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.



#### 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



#### **Bloc Diagram**

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## **SPECIFICATION SUMMARY**

	Unit	Specification										
Optical Performance												
Wavelength	nm	1290~1310										
Output Power	dBm	3/6/8/9/10/11/12/13/14/15										
<b>RF</b> Performance			•									
Bandwidth	MHz	47 - 1003										
Impedance	Ohms	75										
Flatness	dB	$\leq 0.75$										
RF Input Level	dBµV	78±5	Without distortion	pre-								
	dBµV	83±5	With distortion	pre-								
Connector		F female										
Link Performance	·		•									
CNR	dB	≥ 51										
CSO	-dBc	≥ 60										
СТВ	-dBc	≥65										
<b>Electrical and Physical Character</b>	istics		•									
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	%	$\leq$ 85, non-condensing										

# **ORDERING INFORMATION**

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

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