



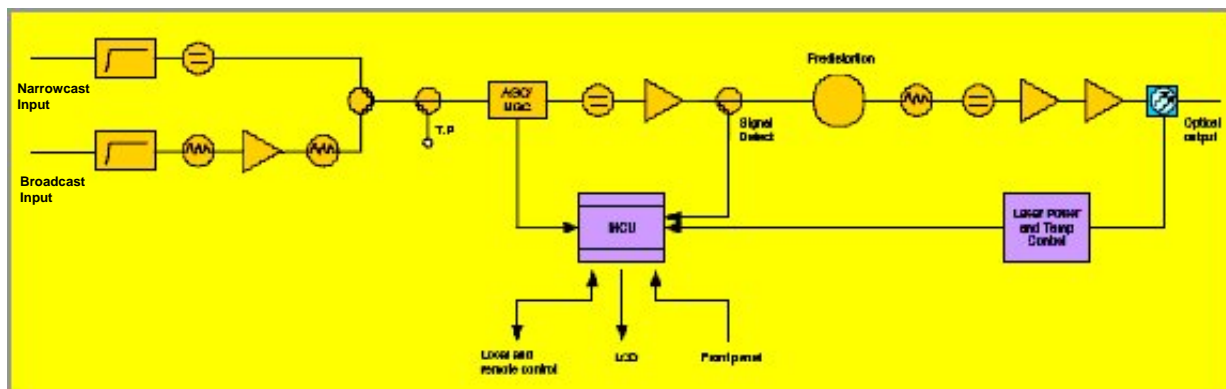
## EG1310 Series Fiber Optic Transmitter



The standard rack-mounted EG1310TX series 1310nm optical transmitters are designed for HFC and fiber to the home (FTTH) network application at present and in the future. These 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 1310nm MQW DFB lasers with integrated optical isolator. These lasers operate at a wide range of optical output power (from 3 to 13dBm), providing system designers a flexible loss budget.

- 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 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 Ethernet port

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 located on the rear panel of the transmitter.



# SPECIFICATION SUMMARY

	Unit	Specification	
<b>Optical Performance</b>			
Wavelength	nm	1310 ±20	
Output Power	dBm	3/6/8/9/10/11/12/13	
OMI		3.4%	15 dBmV/ch
<b>RF Performance</b>			
Bandwidth	MHz	45 - 1003	
Return Loss	dB	≥ 16	
Input Level (Broadcast / Narrowcast)	dBmV/ch	15 ± 4 / 27 ± 4	
Impedance	Ohms	75	
Flatness	dB	± 0.75	
Connector		F female	
Test Point (Broadcast / Narrowcast)	dB	-20 ±1 / -32 ±1	
<b>Link Performance</b>			
CNR	dB	> 50	
CSO	-dBc	≥ 63	
CTB	-dBc	≥ 67	
XMOD	-dBc	≥ 65	
<b>Electrical and Physical Characteristics</b>			
Supply Voltage	Vac, 50 or 60 Hz.	90 to 264	
Power Consumption	Watts	< 20	
Dimensions	mm	270d x 483w x 44h	
Weight	kg	3.5	
Operating temperature range	°C	0 to 50	
Humidity	%	≤ 85, non-condensing	
Notes:			
1) Test condition: room temperature: 25°C, optical link (fiber 15km+attenuator). Receiver input power: -1dBm, 77 NTSC channels + digital channels till 1003 MHz at -6 dB. 15dBmV per channel at input of transmitter.			
2) Specifications are subject to change without notice.			
3) This is a summary of the complete product specification. Contact your Electroline representative if more detailed specification is required.			

# ORDERING INFORMATION

EG1310TX	-	XX	-	XX	-	X
		Optical Power: 03 = 3dBm 06 = 6dBm 08 = 8dBm 09 = 9dBm 10 = 10dBm 11 = 11dBm 12 = 12dBm 13 = 13dBm		Optical connector :  SA = SC/APC FA = FC/APC		Power Cord:  1 = North America 2 = Europe

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