

VL-FTX 1550nm Forward Transmitter

Description

The VL-FTX-1550 series is a family of high performance 1550nm QAM transmitters. This 1550nm directly modulated transmitter is an ideal replacement for high cost externally modulated units for CATV broadcast applications of up to 20km. All module parameters can be monitored by LED indicators on the front panel of the module, or by using the VL-EMS status management module. This 1550nm transmitter is an integral part of Vale's high density VLINK 3RU Headend system developed to support and enhance the deployment of traditional HFC, passive HFC, as well as fiber to the home (FTTH) networks.



Specifications

Parameter	Unit	Specification	Notes
Optical Performance			
Wavelength	nm	1530 to 1560	--
Output power	dBm	≥10	--
Optical connector	--	SC/APC	--
Output port	--	1	--
Laser type	--	1550nm DFB LD	--
RF Performance			
Bandwidth	MHz	50 to 1002	--
Return loss	-dB	≥16	--
Input level	dBmV	15+/-4	--
Impedance	ohm	75	--
Flatness	dB	+/-0.75	--
Test point	dB	-20+/-1 -32+/-1	Broadband Narrowband
Link Performance 20km fiber, 75ch 256-QAM loading, receive optical power 0dBm			
MER	--	37	--
BER	--	≤1E-7	--
Electrical/Physical Performance			
Supply voltage	VDC	24	--
Power consumption	W	<12.5	--
Dimensions	mm	395D x 24W x 128H	--
Weight	Kg	1.2	--

Features

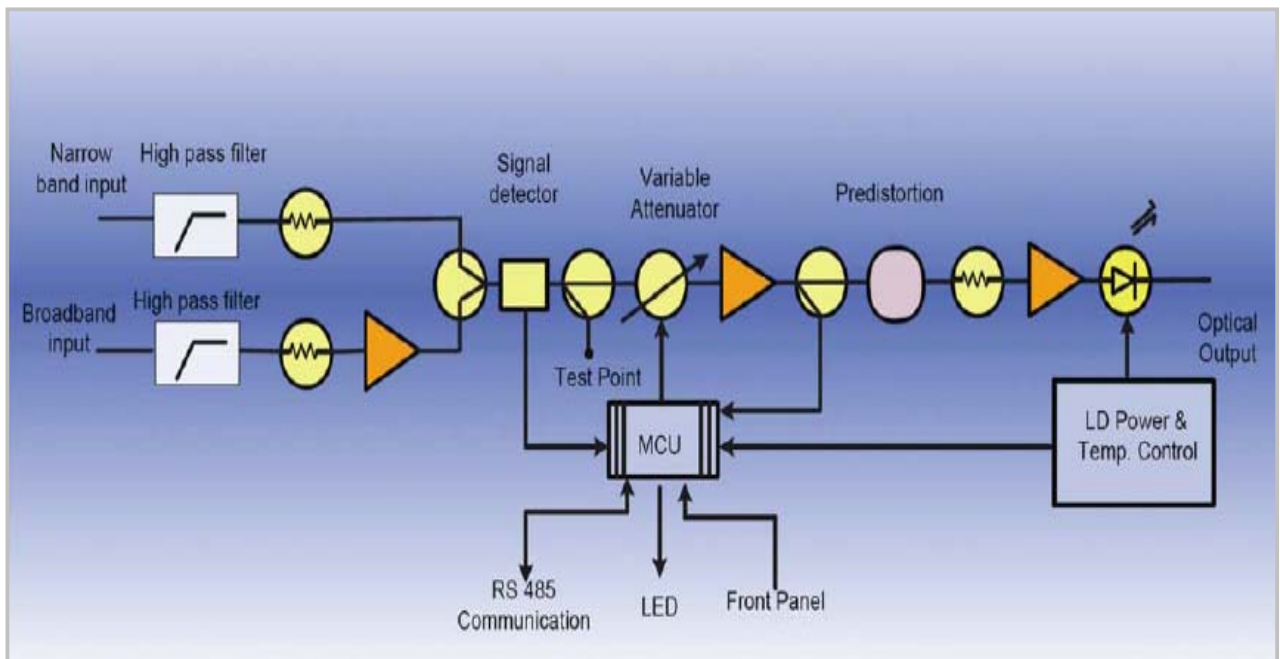
- High performance DFB laser with pre-distortion circuitry
- Designed to operate in the VLink platform system
- 10dBm minimum output power
- 1GHz RF bandwidth
- LED status indicators
- Hot-swap capability

Absolute Maximum Ratings

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only. Functional operation of the device is not implied at these conditions. Exposure to absolute maximum ratings for extended periods can adversely affect device reliability.

Parameter	Symbol	Unit	Min	Max
Operating temperature	Top	°C	0	50
Storage temperature	Tstg	°C	-40	70
Humidity	H	%		85, non-condensing

Block Diagram



Ordering Information

VL-FTX-1550	--	XXX	--	XX
		Connector: SCA = SC/APC		Customer specify