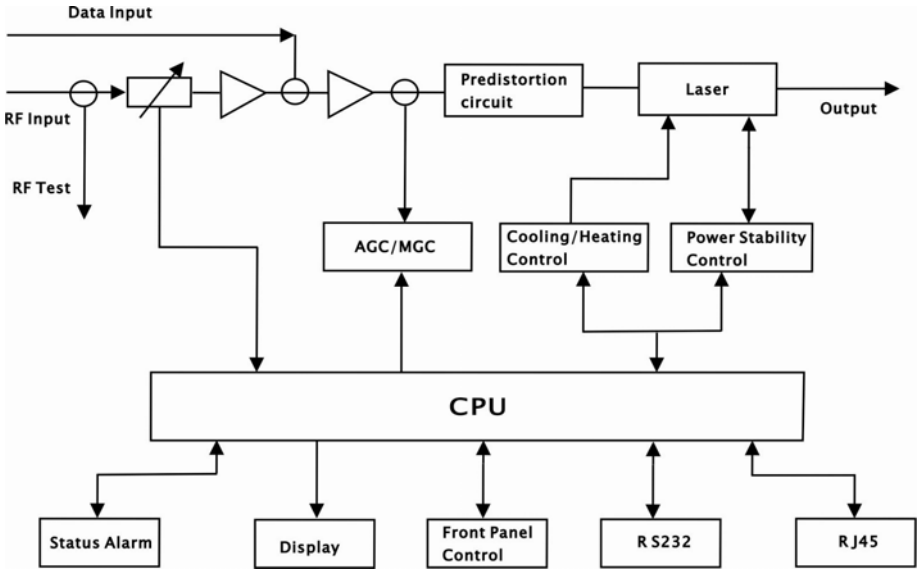
EL-FTX3 1550nm Optical Transmitter Direct Modulated

DESCRIPTION

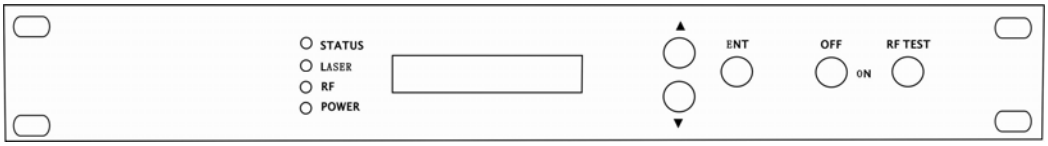
EL-FTX3 1550nm is a 1.2GHz optical transmitter for long distance transmission adopts advanced electric dispersion compensation technology based on the standard model. The standard model will create serious chirp distortion (the bias current of the laser is modulated by the signal, and the optical frequency is shifted and jittered). The distortion becomes more and more serious with the increase of transmission distance, transmission bandwidth and the number of channels. This device adopts the advanced technology of EMD compensation. According to the actual transmission distance, it can accurately compensate in 1km step. It is mainly used in large area coverage and long-distance point-to-point transmission of secondary optical fiber network. It provides high-quality but low-cost solution to realize triple play and FTTx transmission system.

Category	Items	Unit	Index			Remarks
			Min.	Typ.	Max.	
Optical Index	Operating Wavelength Range	nm	1528.77		1563.86	Compatible with ITU wavelength
	No. of Output Ports	No		1	2	
	Output Power per Port	dBm	3		10	1dBm interval
	Laser Linewidth	MHz		0.65	1.0	
	SMSR	dB	45	50		
	XP	dB	20			
	RIN	dB/Hz			-160	RIN（20~1002MHz）
	Optical Return Loss	dB	50			
	Fiber Connector		SC/APC			FC/APC、LC/APC
RF Index	Operating Bandwidth	MHz	47		1200	
	Value Difference of RF and Data	dB		10		
	Input Level	dBμV	75	80	85	AGC
	Flatness	dB	-0.75		+0.75	47~1200MHz
	Return Loss	dB	16			47~1200MHz
	Input Impedance	Ω		75		
	RF connector		F Metric/Imperial			Specified by user
Link Index	DCM Distance	Km			50	
	CNR1	dB	48.0			25km, Rx 0dBm 59CH Analog+40CH digital
	CTB1	dB	63.0			
	CSO1	dB	60.0			
	CNR2	dB	46.0			50km, Rx 0dBm 59CH Analog+40CH digital
	CTB2	dB	63.0			
	CSO2	dB	55.0			
General Index	Network Management Interface		SNMP,WEB supported			
	Power Supply	V	90		265	AC
			-72		-36	DC
	Power Consumption	W			30	Dual Power Supply, 1+1 standby
	Operating Temp	℃	-5		+65	Auto case temp control
	Storage Temp	℃	-40		+85	
	Operating Relative Humidity	%	5		95	
	Dimension	mm	370×483×44			D、W、H
	Weight	Kg	4.1			

DIAGRAM

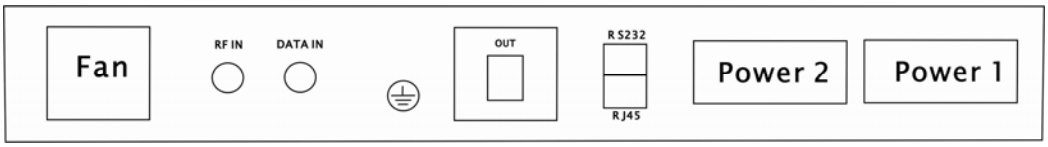


FRONT PANEL INSTRUCTIONS



S/N	Identification	Name	Remarks
1	LCD	LCD Display	To display the parameters of the transmitter
2	STATUS	Device Working Status	LED Green, Device working
			LED Red, Device faulty or alarm
3	LASER	Laser Output	LED Green, Output with in normal range
			LED Red, no output
4	RF	RF Input	LED Green, Input within requested range
			LED Red, no input or out of the requested range
5	POWER	Power Supply	LED Green, Dual power supply working
			LED Yellow, Single power supply working
6	▲▼	Buttons	Start menu page turning and set the device
7	ENT	Enter	Confirmation after menu page turning and device setting
8	OFF/ON	Key	ON is opening, OFF is closed
9	RF TEST	RF Test Point	RF input level -20dB μ V

REAR PANEL INSTRUCTIONS



S/N	Identification	Items	Remarks
1	RF IN	RF Input Port	RF Input
2	DATA IN	Data Input Port	Data Input
3	OPT OUT	Optical Output	Optical Output
4	RS232	RS232 Port	Local programming
5	RJ45	RJ45 Port	Remote SNMP and WEB supported
6	Fan	Fan	For device cooling
7	⏚	Grounding Port	For Grounding
8	Power1	Power Socket1	Hot plug in/out supported
9	Power2	Power Socket 2	Hot plug in /out supported

ORDERING INFORMATION

EL-	**FTX3-1U-**	**1550-**	**08-**	**SA**	**-1**	**1**
Model Series	Type	Wavelength	Optical Power Output	Opt Conn	RF Input Port	Bandwidth
EL-	FTX3-1U	1550	06 = 06dBm	SA = SC/APC	1= single input	1=1GHz
			08 = 08dBm	FA = FC/APC	2 = dual input	Blank = 1.2GHz
			10 = 10dBm			
			12 = 12dBm			