

STRATUM LinX FOT-E-R1 1550 nm DWDM FORWARD PATH OPTICAL TRANSMITTER



- DOCSIS 3.1 compatible frequency range
- Optical link up to 20 km
- Independent local electronic configuration interface
- Remote management and configuration
- For CATV HFC and FttH RF overlay solutions

GENERAL DESCRIPTION

The STRATUM LinX FOT-E-R1 is a 1550 nm wavelength DWDM forward path optical transmitter built into a standard 19" rack of 1U height. All the needed components are mounted into the housing, like the power supply for 230 V AC or -48 V DC, and the optional monitoring transponder. The remote control doesn't need Ethernet connection, thanks to the HMS communication via the RF port. The default output power is 10 mW, which can be splitted into 2 or 4, and can be improved by an EDFA module in case of need.

TECHNICAL SPECIFICATIONS

Optical parameters	LX-FOT-E-R1-52	LX-FOT-E-R1-54
Wavelength [ITU channel]	34 (suggested, but other channels possible)	
Output optical power [mW]	2x4 (2x6 dBm)	4x2 (4x3 dBm)
Relative intensity noise (RIN) [dB/Hz]	<-145	
Laser type	DFB cooled	
RF parameters		
Frequency range [MHz]	258...1218	
Return loss [dB]	>16	
Flatness [dB]	±0.5	
Nominal RF input level [dBmV]	20 ⁽¹⁾	
RF offset range [dB]	-6...+3	
RF equaliser range [dB]	0...6	
CTB [dBc]	-62 ⁽²⁾	
CSO [dBc]	-55 ⁽²⁾	
CNR [dB]	>47 ⁽²⁾	
Noise-to-power ratio (NPR) maximum / Dynamic range of NPR > 42 [dB]	45 / 7 ⁽³⁾	

Specifications are subject to change without notice!

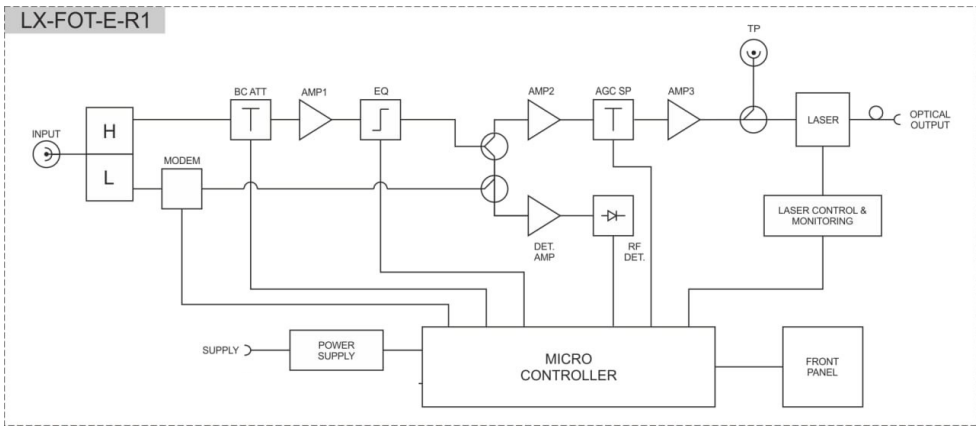
General parameters

- Optical connector
- RF connector
- Power supply voltage
- Power consumption (typical / maximum) [W]
- Temperature range [°C]
- Dimensions [mm]
- Weight [kg]

LX-FOT-E...L-LA	LX-FOT-E...D-LA
	LC/APC
	F-type
230±20% VAC	-48 VDC
6.7 / 9.2	
0...+50	
483x180x43.5	
2.5	

(1) 92 ITU-T J.83 Annex A 256 QAM channels between 258 MHz and 1002 MHz
(2) Test conditions: OMI=3.2%, 110 NTSC channels, received power -1 dBm
(3) Measured with flat full spectrum load between 47 and 1218 MHz, after an optical link of 15 km, received power -2 dBm

BLOCK DIAGRAM



ORDERING INFORMATION

L	X	-	F	O	T	-	E	-	R	1	-	5	X	X	X	-	X	X	-	X	-	L	A