

FOT-B ECONOMICAL 1310 NM FORWARD PATH OPTICAL TRANSMITTER



- DOCSIS 3.1 compatible frequency range
- Independent local electronic configuration interface
- Remote management and configuration
- Front or rear optical interface
- Cost effective solution

TECHNICAL SPECIFICATIONS

Optical parameters

Wavelength [nm]	1310±10
Output optical power [mW]	2, 3, 4, 8, 10 (3, 5, 6, 9, 10 dBm)
Relative intensity noise (RIN) [dB/Hz]	<-145
Optical connector	SC/APC, EURO2000
Laser type	DFB Uncooled Coaxial

RF parameters

Frequency range [MHz]	47...1218
Return loss [dB]	>16
Flatness [dB]	±0.5
Nominal RF input level (BC / NC) [dBμV]	80 ⁽¹⁾ / 100
RF input level range (BC and NC) [dB]	±8
RF offset range [dB]	-6...+3
RF equaliser range [dB]	0...6
RF testpoint (3.2% OMI) [dBμV]	75±1
Port-to-port isolation (NC to BC) [dB]	>50
CTB [dBc]	-65 ⁽²⁾
CSO [dBc]	-57 ⁽²⁾
CNR [dB]	>51 ⁽²⁾
Noise-to-power ratio (NPR) maximum / Dynamic range of NPR > 42 [dB]	46 / 6 ⁽³⁾

General parameters

Power consumption [W]	4.5
Operational temperature range [°C]	0...+50
Dimensions [mm]	230x130x35
Weight [kg]	0.5

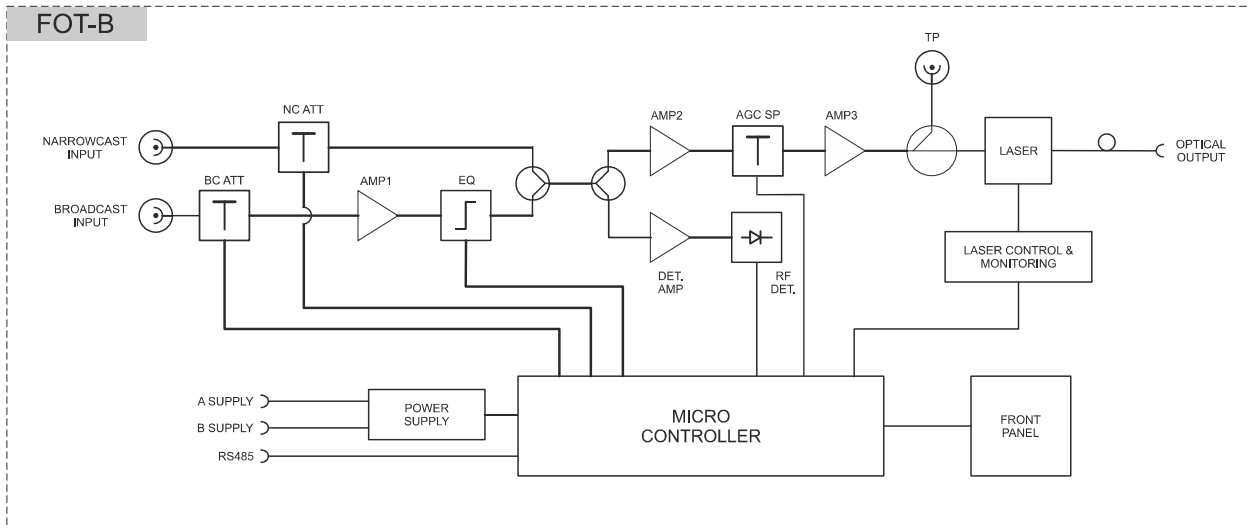
(1) 92 ITU-T J.83 Annex A 256 QAM channels between 258 MHz and 1002 MHz

(2) Test conditions: OMI=3.7%, 79 unmodulated carriers, received power 0 dBm

(3) Measured with flat full spectrum load between 47 and 1218 MHz, after an optical link of 25 km, received power -2 dBm

Specifications are subject to change without notice!

BLOCK DIAGRAM



ORDERING INFORMATION

F O T - B 3 X X - X X - X

Output power	
02	2mW / 3dBm
03	3mW / 5dBm
04	4mW / 6dBm
08	8mW / 9dBm
10	10mW / 10dBm

Optical interface position	
F	Front side (Recommended type)
R	Rear side

Optical connector	
SA	SC/APC (Recommended type)
EU	EURO2000

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