

FOT-E 1550 NM DWDM FORWARD PATH OPTICAL TRANSMITTER WITH BUILT-IN EDFA



- DOCSIS 3.1 compatible frequency range
- Up to 12 DWDM channels in a single fiber
- Optical link up to 25 km
- Independent local electronic configuration interface
- Remote management and configuration
- For CATV HFC, RfG and FttH RF overlay solutions

TECHNICAL SPECIFICATIONS

Optical parameters

Wavelength [ITU channel]	21, 22, 24, 26, 28, 33, 39, 48, 52, 54, 60, 62
Output optical power [mW]	10, 50, 2x50, 4x50 (10, 17, 2x17, 4x17 dBm)
Relative intensity noise (RIN) [dB/Hz]	<-145
Optical connector	LC/APC
Laser type	DFB cooled

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]	-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⁾

General parameters

Power consumption (typical / maximum) [W]	5.7 / 7.8 ⁽⁴⁾
Operational temperature range [°C]	0...+50
Dimensions [mm]	230x130x35
Weight [kg]	0.6

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

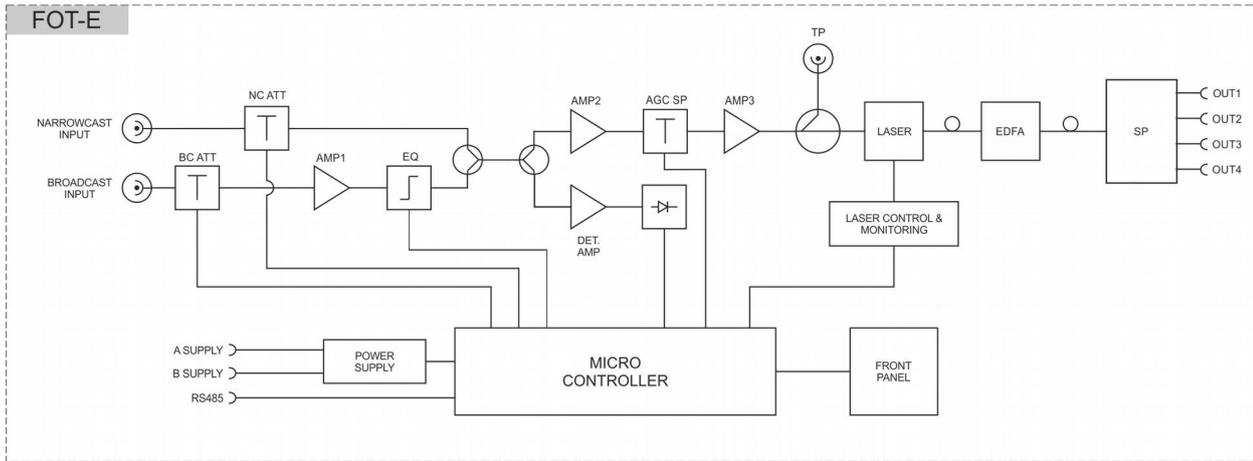
(2) Test conditions: OMI=3.2%, 110 NTSC channels, received power -1 dBm

(3) Measured with flat full spectrum load between 47 and 1218 MHz, after an optical link of 15 km, received power -2 dBm

(4) Typical value measured at a TEC current of 0.3 A, maximum value measured at a TEC current of 1A

Specifications are subject to change without notice!

BLOCK DIAGRAM



ORDERING INFORMATION

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

Number of output ports

1	1 port (without splitter)
2	2 ports
4	4 ports

Output power per port

10	10 mW (10 dBm) - only 1 port
50	50 mW (17 dBm)

Output wavelength

21	1560.61 nm
22	1559.79 nm (Recommended type)
24	1558.17 nm (Recommended type)
26	1556.56 nm (Recommended type)
28	1554.94 nm (Recommended type)
33	1550.92 nm
39	1546.12 nm
48	1538.98 nm
52	1535.82 nm
54	1534.25 nm
60	1529.55 nm
62	1527.99 nm

Specifications are subject to change without notice!