

Type		OFN100-FWLX
Order number		212 176
EAN-Code		4026187192945
Optical node type		Forward path only
Optical characteristics		
Optical input wavelength	[nm]	CATV: 1550±10 GPON US: 1260-1330 GPON DS: 1480-1500 & 1575-1580
Optical input power	[dBm]	-9... +2
AGC range	[dB]	adjustable -9/-8/-7/-6/-5/-4 ... +2
Optical return loss	[dB]	> 45
Optical connector type		COM: LC/APC & PON: LC/UPC
Fibre type		Single mode 9/125
RF characteristics		
Frequency range	[MHz]	45...862/1006
Flatness	[dB]	± 0,75
RF level (90 x QAM256, 110 MHz to 860 MHz, ATT1=7dB / EQ1=8dB)	[dBμV]	≥ 102
Output return loss	[dB]	> 16
Output Impedance	[Ω]	75
Electronic control EQ range (Slope from 45 MHz to 1006 MHz)	[dB]	0...15
Electronic control ATT range	[dB]	0...15
Common data		
Power supply	[VAC]	Mains: 150...265
Chassis type		diecast housing
Power consumption	[W]	≤ 8
Dimension (L x W x H)	[mm]	190 x 110 x 52
Ambient temperature	[°C]	-40...+60
Relative humidity	[%]	maximum 95, non condensing
Link performance*		
MER(worst channel)	[dB]	≥ 39
BER		< 1E-9
Factory Setup		
A1 (interstage attenuation)	[dB]	5
E1 (interstage equalizer)	[dB]	6
AGC threshold	[dBm]	-9
Mode 2 (channel loading)		28

*) Testing conditions:

QAM256 digital signals 110 MHz .. 862 MHz 90 channels, ATT1 = 7dB, EQ1 = 8dB, optical fiber link length of total 20 km, direct modeTX 1550 nm and EDFA, optical receiver input level @ -5 dBm, RF output level of 102 dBμV @ 860 MHz