



4 Port Outdoor Optical Node

Key Features

- » Advanced optical AGC function, the input optical power range up to $-6 \sim +2\text{dBm}$
- » Downlink RF operating bandwidth extended to 1GHz, the highest output level $\geq 108\text{dB}\mu\text{V}$
- » Professional RF electrical adjustable attenuation chip, RF electrical adjustable equilibrium circuit, good linearity, high precision
- » The structure utilizes an adaptive embedded modular design, making internal components easy to maintain and replace



Description

MUL-OFN-V-M-FP-4-M 4 Port Outdoor Optical Node is mainly used in FTTB structural CATV bi-directional HFC networks. Utilizing an adaptive modular mechanical combination structure with RF amplifier unit and switching power supply module sharing one modular frame in the bottom cover. The top cover can be configured with 1 forward optical receiver module, 1 reverse optical transmitter module and 1 Ethernet transponder module.

MUL-OFN-V-M-FP-4-M

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Product Specifications

Item	Unit	Technical Parameter	
Forward Optical Receiver			
Optical Parameters			
Optical Receiving Power	dBm	-6 ~ +2	
Optical Return Loss	dB	> 45	
Optical Receiving Wavelength	nm	1100 ~ 1600	
Optical Connector Type		SC/APC, FC/APC (or as specified by user)	
Optical Fiber Type		Single Mode	
Link Performance			
C/N	dB	≥ 51	@84ch, Pin= -1dBm, output level 106dBuV, EQ 6dB
C/CTB	dB	≥ 65	
C/CSO	dB	≥ 63	
RF Parameters			
Frequency Range	MHz	54 ~ 862/1003	
Flatness in Band	dB	± 0.75	
Rated Output Level	dBμV	≥ 106	
Max Output Level	dBμV	≥ 108 (-6 ~ +2dBm optical power received)	
Output Return Loss	dB	≥ 16	
Output Impedance	Ω	75	
Return Optical Transmitter			
Optical Parameters			
Optical Transmit Wavelength	nm	1310 ±10, 1550 ±10 (or as specified by user)	
Laser Type		DFB or FP Laser	
Optical Output Power	mW	0.5, 1, 2	
Optical Connector Type		SC/APC, FC/APC (or as specified by user)	
RF Parameters			
Frequency Range	MHz	5 ~ 42	
Flatness in Band	dB	±0.75	
Input Level	dBμV	75 ~ 85	
Input Return Loss	dB	≥ 16	
Output Impedance	Ω	75	
NPR Dynamic Range	dB	≥15 (NPR ≥30 dB) Use DFB Laser, ≥10 (NPR ≥30 dB) Use FP Laser	
General Statistics			
Power Voltage	V	A: AC 135 ~ 250 V/50Hz, B: AC 35 ~ 90V/50Hz	
Operating Temperature	°C	-30 ~ +70	
Storage Temperature	°C	-30 ~ +70	
Relative Humidity	%	Max 95% No Condensation	
Consumption	VA	≤ 34	
Dimensions	mm	295 (L) x 210 (W) x 150 (H)	

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