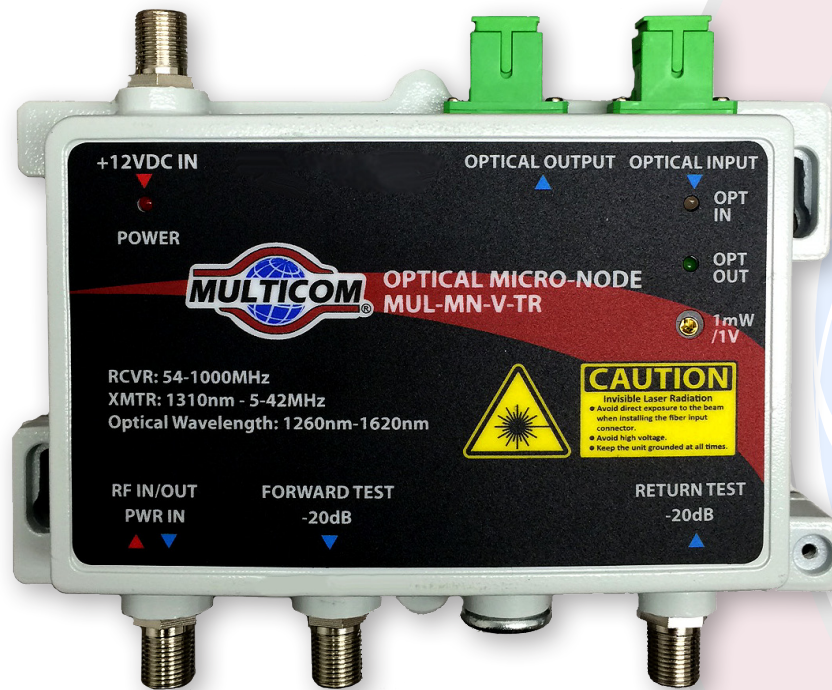




Optical Micro-Node

Key Features

- » The laser control circuit uses advanced circuit design, insuring reliable and stable operation
- » Provides excellent AGC characteristics, when the input optical power range is within $-7 \sim +2\text{dBm}$, the RF output level remains unchanged, CTB and CSO basically remain unchanged
- » Optimized circuit design, SMT production process, optimizing the entire signal path, makes the optical signal transmission more stable, RF linear indicators higher
- » Professional RF attenuator circuit, with good linear attenuation and high precision
- » GaAs amplifier device, with good index, low distortion, and high reliability
- » Aluminum die casting for efficient cooling, and reliable, stable performance



Description

The MUL-MN-V-TR optical receiver is bidirectional equipment that was specially developed for HFC broadband networks, accommodates FTTH (Fiber to the Home) network topology, while addressing the issues of CATV bidirectional return channel noise and high reliability network security transmission requirements of modern CATV networks.

MUL-MN-V-TR

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Optical Micro-Node

Product Specifications

Item	Unit	Technical Parameter
Forward Optical Receiver		
Optical Parameters		
Optical Receiving Power	dBm	-7 ~ +2
Suggested Use Range	dBm	-3 ~ +1
Optical Return Loss	dB	> 45
Optical Receiving Wavelength	nm	1260 ~ 1620
Optical Connector Type		SC/APC
Fiber Type		Single Mode
Link Performance		
C/N	dB	≥ 51 received optical power (-1dBm)
C/CTB	dB	≥ 63
C/CSO	dB	≥ 60
RF Parameters		
Frequency Range	MHz	54 ~ 1000
Flatness in Band	dB	± 0.75
Rated Output Level	dBμV	≥ 92 (≥ +32dBmV)
Max Output Level	dBμV	≥ 92 (≥ +32dBmV)
Output Return Loss	dB	≥ 16
Output Impedance	Ω	75
Return Optical Transmitter		
Optical Parameters		
Optical Transmit Wavelength	nm	1310 ±10
Laser Type		FP laser
Optical Output Power	mW	1 ± 0.5
Optical Connector Type		SC/APC
RF Parameters		
Frequency Range	MHz	5 ~ 42
Flatness in Band	dB	±0.75
Input Level	dBμV	75 ~ 85 (+15 ~ +25dBmV)
Input Return Loss	dB	≥ 16
Output Impedance	Ω	75
NPR Dynamic Range	dB	≥10 (NPR ≥30 dB) Using the FP laser
General Statistics		
Power Voltage	V	+12VDC (from the included AC Adapter)
Operating Temperature	°C	-30 ~ +70 (-22 ~ +158°F)
Storage Temperature	°C	-30 ~ +70 (-22 ~ +158°F)
Relative Humidity	%	Max 95% no condensation
Consumption	W	≤ 6
Dimensions	mm	154 (L) x 116(W) x 26(H) (6in x 4.6in x 1in)

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