



Multicom Optical Micro-Node

Key Features

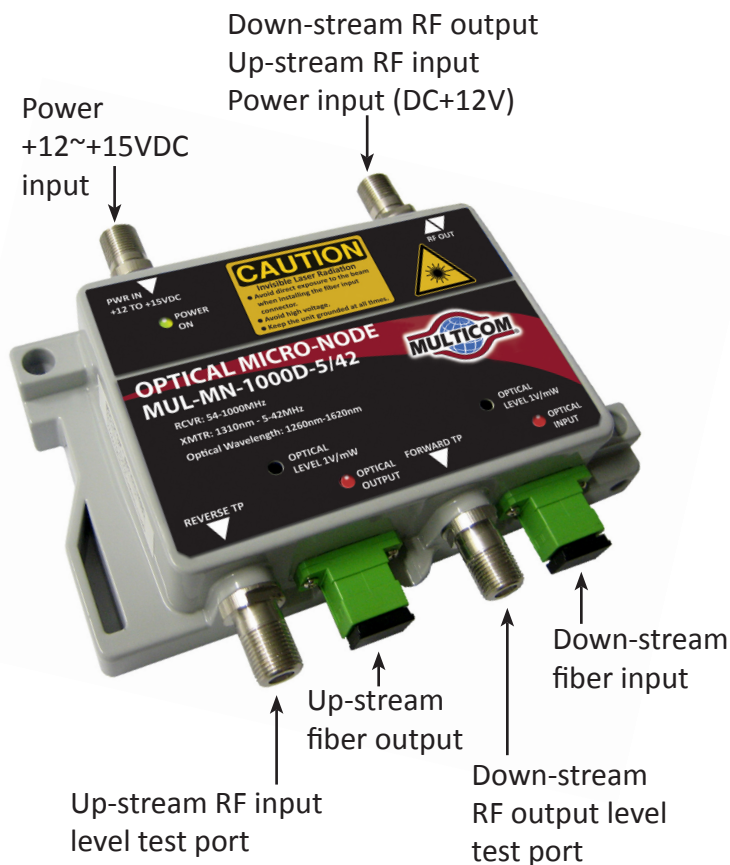
- » Two-way Micro Indoor Optical Receiver & Transmitter
- » 54-1000 MHz Forward Bandwidth
- » 5-42 MHz Return Bandwidth
- » Wide Optical Input Range (-6 to +3 dBm)
- » 1260nm-1620nm Optical Wavelength
- » 25 dBmV RF Output

Description

Multicom's Optical Micro-Node and Return Path Receiver provide a fully integrated solution for two-way hybrid fiber-coax deployment in MDUs. While providing a simple to install and use video distribution system, the Micro-Node's fiber optic return path allows for two way and advanced services, such as HDTV, cable modems, VoIP, and security.

The Micro-Node converts the incoming optical signal to RF and then distributes the signal to each dwelling. Return path signals are transmitted from each subscriber to the Micro-Node. An integrated laser converts the RF signals to optical and delivers these signals back to the headend.

The MUL-MN-2W-1000D-5/42 is an ideal MDU solution, for garden style living, high rise apartments, stadiums, hotels, or office parks; anywhere a high-density solution is required. These micro-nodes are so cost effective even telcos have started using them in FTtx networks with single family homes.



MUL-MN-2W-1000D-5/42

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Multicom's Optical Micro-Node

Product Specifications

Down-stream Specifications		Values	Notes
Optical	Operating wavelength (nm)	1260 - 1620	
	Optical Input (dBm)	-6 - +3	
	Return loss (dB)	>50	
	Input power test point (V/mW)	1	
	Connector	SC/APC	
RF	Max. operating bandwidth (MHz)	54 - 1000	
	Flatness (dB)	-0.5 - +0.5	54~1000 MHz
	Output return loss (dB)	16	54~1000 MHz
	Output level (dBmV)	25	Optical Input at 0dBm
	Output level test port (dB ref)	-20	
	Impedance (Ω)	75	
	RF connector	F-female	
Link	CNR (dB)	52	78CH, Optical Input at 0dBm
	CTB (dB)	-65	
	CSO (dB)	-60	
	HUM (dB)	-60	
General	Power supply - Volts DC	+12	
	Power consumption (W)	4	
	Operating temp. ($^{\circ}$ C)	-20 - 65	
	Storage temp. ($^{\circ}$ C)	-40 - 85	-4 - 150 $^{\circ}$ F
	Relative humidity (%)	5 - 95	
	Size (W x D x H mm)	130 x 106 x 33	5¼ x 4¼ x 1¼ inches
Up-stream Specifications		Values	Notes
Optical	Reverse TX operating wavelength (nm)	1310	
	Type of laser with return path	FP	
	Output power (mW)	1.0	
	Return loss (dB)	>55	
	Output power test point (V/mW)	1.0	
	Connector	SC/APC	
RF	Operating bandwidth (MHz)	5 - 42	
	Flatness (dB)	-0.5 - +0.5	5~42MHz
	Noise Power Ratio (dB)	37	FP Link loss \geq 15dB
	Input level (dBmV)	20	
	Return loss (dB)	16 - 18	5~42MHz
	Input power monitor (dB)	-20	

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