

Category Reverse Node



RF2F Reverse Node

At the end of almost every feeder line there are potential customers that could be fed with a system extension, but the cost is prohibitive. Utilizing our RF2F reverse node, fiber can be run off of your RF plant to serve customers up to 2 miles economically. The RF2F is available with a single, dual, quad or 8 outputs to easily and inexpensively extend your system. Simply add the RF2F unit in your feeder line, just as you would a regular tap, and then run fiber from the RF2F to your customers home. At the home install a <u>RFoG</u> mini-node and enjoy the added revenue of a happy customer.

Each RF2F can be configured with a single or dual 1550 transmitters, each with a single output or with 2-way or 4-way splits. For example the 8 way RF2F unit includes (2) High power (7dBm) 1550 nm transmitters, (2) 1310 or 1610 receivers, (2) WDM combiners and (2) 4-way fiber splitters giving it a total of 8 outputs. An internal AC power supply is also enclosed in the RF2F's small die cast housing. Dual transmitters and receivers are used to eliminate the requirement to use high power TEC laser diodes, which are costly and require extra circuitry to maintain thermal stability. In addition by using dual receivers, (each one only receiving only 4 inputs), the chance of OBI (Optical Beat Interference) is minimized.

RF2F 17dB EDFA is also available.





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Specifications

Parameter			Value	Option		
Optic Specs	Wavelength	(nm)	1548~1563			
	Line width	(MHz)	≤1		FWHM(λ)	
	Side mode suppression ratio	(dB)	≥45		SMSR	
	Extinction ratio	(dB)	≥20		XP	
	Equivalent noise intensity	(dB/Hz)	≤-160	RIN	RIN (20~1210MHz)	
	Output power	(dBm)	7	Before Optical Splitter		
	Return loss	(dB)	≥55			
	Optical fiber connector		SC/APC			
RF Specs	Bandwidth	(MHz)	45-1210			
	Input level	(dBmV)	10	No	Note: TP is -20 dB down!	
	Flatness	(dB)	≤±1.5			
	Return loss	(dB)	>16			
	Noise Figure	(dB)	8	0 pad 0 EQ		
	Input impedance	(Ω)	75		RF/INPUT	
Link Specs	Transmit channel loading		NTSC/78CH			
	CNR	(dB)	≥50	-1dBm receive		
	CNR	(dB)	≥48	-4dBm receive		
	СТВ	(dBc)	60			
	CSO	(dBc)	60			
	Power supply	(V)	40-90 VAC			
	Power	(W)	≤2		Option 5 mW	
	Work temp.	(C)	-40 ~ +65			
	Storage temp.	(V)	-40~ 85			
	Operating relative humidity	(%)	5~95			
	Size	(")	7.5×10×4		(W)x(D)x(H)	
	OPTIONS: • 1310nm or 1610nm return					

• Single, Dual or Quad Internal Optical Splitters