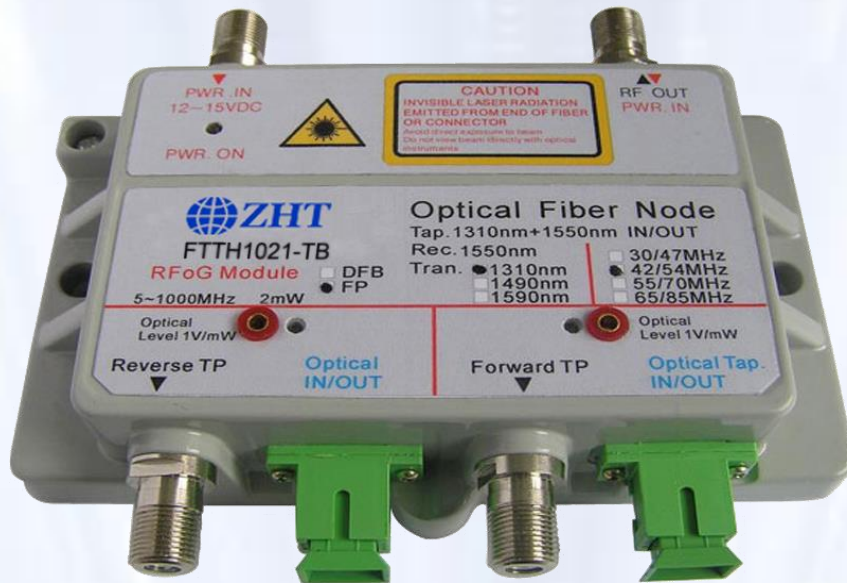


FTTH1021-TB New Product Mini Optical Fiber Node

MODEL: FTTH1021



Features:

- RFoG model, for all optical fiber network;
- Design for reverse path burst, reducing the cumulative amount of noise moving over the upstream path on the fiber back to the hub the company maximizes the path distance and the signal-to-noise ratio at the upstream receive end;
- Inside switching power supply.

Specifications:

Downstream (RF)

Parameter	Unit	Min	Typical	Max	Note
Frequency Range	MHz	54		1002	note1
Flatness	dB		±0.5	±0.75	
Output Level	dBmV	20			
CNR	dBc		52		note2
CSO	dBc		-67		note2
CTB	dBc		-65		note2
CM	dBc		-65		note2
Group Delay	ns			15	55.25MHz 3.58MHz span
Return Loss	dB	16	18		F Type 75Ω
Monitor Level	dBc	-22	-20	-18	

Laser

Wavelength	nm		1550		
Input Power	dBm	-6		2	
Optical Return Loss	dB	55	62		
Monitor Power	mW/V	1±0.2	Test Point	Monitor Power	mW/V
State	Green	Optic Power ≥ -6dBm			LED
	Red	Optic Power < -6dBm			

Upstream (RF)

Parameter	Unit	Min	Typical	Max	Note
Frequency Range	MHz	5		42	
Flatness	±dB		±0.5	±0.75	

Return Loss	dB	16	18		F-Shape75Ω
Monitor Power	-dBc	-22	-20	-18	
Input Level	dBμV	81 (-47dBmV/Hz)			2 NTSC Channel

Laser

Optic power	mW	1	2		
Burst Level	dBμV	70			
CNR	dBc		50		note3
2nd Intermodulation	dBc		-55		note3
3rd Intermodulation	dBc		-58		note3
Optical Return Loss	dB	55	62		
State	Green	Laser Operation ok			LED
	Red	Output Power Fall 50%			
Power Inspection	Vdc/mW	1±0.2			Test Point

Optical branching device

Wavelength	nm	1310 & 1550			
Main Port		75%			Optional
Optical Tap port		25%			

General parameter

RF Ports		
Optic Connector	SC/APC	
Operate Temperature	From -30°C to +50°C	
Power Supply	12VDC 500mA	By power adapter
Surge Withstand	0.5μs-100KHz ring wave 6kV/200A	RF IN/OUT ports
Measurement	128x112x32 mm	

Note:

1. The Frequency range of transmitter same, must 54-1002MHz.
2. OMI / ch be 3.5%/ch and Optic input -1dBm.
3. 2 NTSC channel loading, 7dB Fiber link. Functional Block Diagram (1310nm+1550nm WDM with Optical bypass)