



...communicating at the speed of light

FT-FRXOD-SCAPC Outdoor Fiber Optic Node

Features:

- Dual RF Outputs
- Wavelength: 1200 - 1600nm
- 54-1,000 MHz Forward Path Receiver
- 5-42 MHz Reverse Path Transmitter
- Wide optical input range -8dBm to +2dBm
- GaAs Power Doubled Amplifier
- -20 dB RF test point
- Local or remote power supply
- Outdoor housing

Description:

The FT-FRXOD-SCAPC is a state of the art fiber node designed for outdoor two-way fiber optic applications. With a receive frequency range of 54 to 1,000 MHz, these units offer flexibility in operation and maintenance. This multi-function optical node adopts high-quality GaAs power doubled amplifier technology to provide a high level of reliability with low power, low noise, a high output level and excellent performance to price ratio. This series features an integrated return path transmitter with a reverse frequency range of 5-42 MHz. The automatic gain control (AGC) range is +1dBm to -6dBm with a received optical power is -6dBm. The unit provides a stable RF output level when fed with input levels between -8dBm and +2dBm. The outdoor weatherproof housing contains an internal power supply requiring 60VAC. Plug in attenuator pads and equalizers allow this unit to adapt to every distribution system.



Specifications:

Forward Optical

Input Optical Power Range	-8 to +2 dBm
Optical Return Loss	≥40 dB
Working Wavelength	1200 - 1600 nm
Optical Connector	SC/APC
Optical AGC Control Range	-6 to +1dBm

Forward RF

Bandwidth	54-1,000 MHz
Flatness	+/-1.5 dB
Impedance	75 Ohms
RF Output Level	48 dBmV
Amplifier Gain	≥28 dB
RF Return Loss	≥16 dB
RF Test Point	-20 dB +/-1.0 dB
Carrier to Noise Ratio (CNR)	≥47 dBc
Composite Triple Beat (CTB)	≥65 dBc
Composite Second Order (CSO)	≥65 dBc

Reverse Optical

Laser Type	FP
Optical Output Power	≥0 dBmW
Optical Wavelength	1310nm +/-20nm

Reverse RF

Passband	5-42 MHz
Flatness	+/-1.5 dB
Impedance	75 Ohms
RF Return Loss	≥16 dB
RF Input Level	+20 dBmV
Amplifier Gain	≥24dB

General

Operating Temperature	-13°F to +130°F
Storage Temperature	-13°F to +150°F
Power Supply	60VAC
Power Consumption	<15VA
Dimensions	11.5"W x 8"H x 5"D
Weight	6lbs.

Ordering Information:

FT-FRXOD-SCAPC Dual Output fiber optic receiver with SC/APC fiber input

Contents Include:

- 1 Fiber optic node