RF Over FIBER 2.4 GHz

Multi Link -Transmit, Receive

RADITEK

SATCOM

RF over Fiber

RoHS COMPLIANT

Key features

- o Frequency Range: 0.*1-2.4 GHz*
- o Wide Dynamic Range
- o Remote management
- o *Option for 2:1 Redundancy mechanism*
- o Redundant Power Supply
- o >10 Km transmission distance
- o *Additional Features upon request*

System accomodates

- o Up to 12 Tx or Rx Links (or mix)
- o 1 controller card
- o 2 power supply cards

Our RF over Fiber System (RFOF) is suitable for

- Telecommunications
- Satellite,
- Point-to-Point antennas can be connected from several meters to many kilometers away from the control room.
- Base stations can be connected through fiber to remote sector antennas.
- Broadcasters can easily distribute their full RF streams over fiber to remote locations, therefore eliminating the need for complex equipment to be installed in far and hard to reach locations.
- With our wide-band units, cable operators can centrally locate their broadcasting equipment, and connect the RF through fiber to the remote location, thus reducing significantly the CAPEX and OPEX of their networks.

Our new 2.4 GHz RFOF system can accommodate up to 12 Tx or Rx links (or mix) 2 power supplies cards and 1 control card that can be interfaced to a management system through RS-232 or SNMP protocols.

The product is lightweight and can be installed in 19" rack. There are light indications on the front panels but also through the management system.

Order Examples: RRFOF-2.4-Multi-z17
Description: (RF over Fiber, 2.4GHz, Multi-link Transmit, Receive)

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RF over Fiber-10-1500MHz, Transmit, Receive

RRFoF-10-1500M-Tx-Rx -z17

Parameter	Unit	Specification
RF Tx-Rx link		
Frequency Range	MHz	100 – 2400
RF Gain	dB	> 0
Gain Flatness	dB	≤ ± 2
1dB Input compression point	dBm	≥ -5
VSWR	-	≤ 2:1
RF input signal range	dBm	(-65) - (-5)
Maximum input level	dBm	10
Noise Figure (1)	dB	<32
Spurious signals (2)	dB	-70
Input and output impedance	Ohm	50
Optical and Electrical (Tx,Rx)		
Laser diode operating wavelength	µm	1.31
Receiver Photodiode operating wavelength	µm	1.2 - 1.65
Optical Power	mW	2 ± 0.5
Optical Connectors	-	SC/APC
RF input and output connectors	-	SMA
Communication	-	100-BaseT/Rs232
Power Supply (3)	VAC	110/220
LED status indicators (Tx./Rx.)	-	Green/Red
Mechanical and Environmental (Tx,Rx)		
Number of Tx/Rx units in 19" Chassis	-	12 (Max)
Chassis Dimensions	-	19" 3U
Wight (complete Cage)	Kg	10
Operating temperature range (Trans./ Rec.)	°C	-10 to 65
Storage Temperature range (Trans./Rec.)	°C	-40 to +85

Notes

(1) RFOF with lower N.F is available with lower P1dB.

(2) Excluding in-band harmonics.

(3) Each 19" Chassis can include: up to 12 Tx and/or Rx units (mix), two AC/DC power supply units, Control card.

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