

# RF FIBER OPTIC LINK

## 47 - 2700 MHz

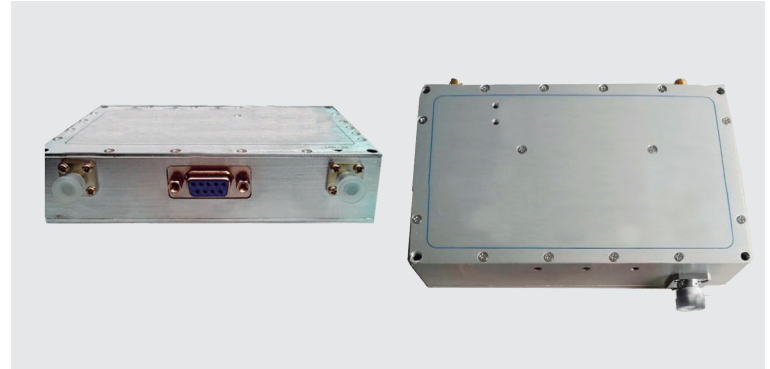
FOL

### Product Features

- WDM: Uplink and Downlink transmission in different wavelengths with built-in WDM for single fiber optic operation.
- Fiber Optic link for outdoor operation (NEMA enclosure), and for 19" rack mount as optional.

### Applications

- Tunnels
- Broadband RF over fiber applications
- Subways
- BTS hotels



### Specification

### Value

Frequency bands	47 - 2700 MHz
Fiber Wavelength	1310±20nm(uplink) 1550±20nm (downlink)
Fiber Output Power	-16~6dBm
Fiber input Power	-15~6dBm
Transmit No Fiber Alarm	≤-3dBm
Receive No Fiber Alarm	≤-16dBm
WDM	Built-in WDM
Transmit Optical Power Testing	Rang-6~6dBm, Error±2dB
Receiver Optical Power Testing	Rang-16~6dBm, Error±2dB
AGC Function	4dB automatic compensation
Link Gain	Uplink: 0 ±3dB Downlink: 0 ±3dB
RF Bandpass Flatness	≤2dB; 47-2700 MHz Flatness≤6dB
VSWR	≤1.4
IMD	> = -55dBc(-3dBm/2CH)
Noise Floor	≤-128dBm/Hz (0dB for RF gain, 0dB for optical decrease)
RF Isolation	≥60dB
Stray	≤-60dBm/100KHz (100MHz ~3GHz)
Group Delay	≤60ns (with 3 ft fiber connection)
Operating Temperature	-4° to 149° F • -20° to +65° C
Operating Current	≤200mA(+12V Power Supply)
Power Supply	DC+12V (6~15V) Power Consumption lower than 4.5W

### Pin

### Name

PIN1	NC
PIN2	GND
PIN3	VCC

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Model	Fiber Connector Type	Enclosure/Mounting	Units Included	Dimensions
FOL11	FC/APC	N/A	Both ends Master & Slave	5 x 3 x 1 in • 127 x 76.4 x 27.5 mm
FOL1M-RM	FC/APC	Rack Mount	Master Only	19" rack • 2RU
FOL1R-RM	FC/APC	Rack Mount	Remote Only	19" rack • 2RU
FOL1M-NEMA	FC/APC	NEMA Box	Master Only	15.3 x 15.3 x 3.5 in • 390 x 390 x 90 mm
FOL1R-NEMA	FC/APC	NEMA Box	Remote Only	15.3 x 15.3 x 3.5 in • 390 x 390 x 90 mm