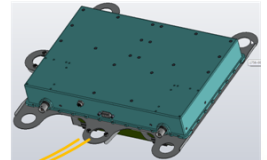




Light weight, 2Ch Fiber Extension system

# RadioLink



UP to 24dB  
1km

## Benefits

- **Dust proof mechanism**, full power with 75% blocked optics.
- **Advanced amplification**, below 30Watt of power consumption!
- **Zero transmit loss circuitry**, fast processing allowing no signal loss in hopping mode or TX/RX transaction.
- **Optional Pelican Military enclosure**

## Product Description:

Foxcom's military **Radio Link** fiber extension system is the ideal solution for aerostat coverage extension.

This innovative optical solution open new boundaries by eliminating traditional limitation of coax cables allowing the user to use a small battery operated aerostat feed by fiber to increase signal coverage by receiving and re transmitting signal in the air,

System is composed **Radio unit** which can interface with 2/4 or more radios and an light weight **Aerostat unit** that puts out 2Watt of transmit power to the antenna.

The radio units connect to the radio via coax cable can accept up to 7Watt and survive with up to 200Watt on input.

The lightweight Antenna unit includes a **Dust proof mechanism** and a highly efficient power amplifiers assuring that a full power is produced even when dust is introduced to the fiber connectors.

With a strong processing power and a **Zero transmit loss** circuitry Foxcom Radio Link system is the **only system** that supports none standard High hopping rates signals while using a **narrow band pass filtering**. The Radio link system can easily be adjusted to support any radio type.

# Light weight, 2Ch Fiber Extension system

## Baloon Radio Fiber Extension System

### RF Spec

Frequency range	30-88MHz
Radio supported / system Channels	2 (optional 4, 6 or more)
Harmonic distortion	> 57dBc
Antenna unit In/Out VSWR	1:1.6
Antenna unit saturation signal PWR [total power]	> +10dBm
Antenna unit to Radio unit Gain	10dB
Antenna unit to Radio unit Noise Figure (Rx)	<5dB
Antenna unit Output Power	33/30/27dBm (2/1/0.5Watt) Adjustable from Radio unit
Antenna unit output OIP3	+44dBm
Radio unit In/Out VSWR	1:1.6
Radio unit input signal range [total power]	Up to 39dBm (7watt) Operating, 53dBm (200Watt) Survive
Radio unit to Antenna unit Gain	14dB
Radio unit Noise Figure	<20dB
Radio unit Output power	Depends on received signal level
Radio unit output OIP3	+5dBm

### Optical Specifications

fiber type	Dual SMF-28 or better [single mode]
Optical wavelength	CWDM range
RSU/ASU optical power output	+3dBm/2mW (Min)
Optical connector	SC-APC/SC-APC
Supported fiber Length	2Km max (2dB).

Physical Specifications	Radio unit	Aerostat unit
RF Connectors	2 BNC Female	2 BNC Female
Operating voltage/Current consumption	17-32VDC/1.5	17-32VDC/28A
Dimensions	19" 1U(2CH)	TBD
Weight	2Kg	TBD

All specifications are subject to change without notice

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# Radio Fiber Optic Extension System

## Additional Information

### General

Frequency accuracy	Not affected by the optical system
10% Band Pass filtering mode	Auto TX & RX / Auto TX/ externally controlled via a serial port
TX/RX switching delay	<1msec (controlled by Zero loss circuitry)
Receive sensitivity	-115dBm
Max returned power with no damage	+48dBm
Radio receive selectivity	Not affected by the optical system
Image rejection	95dBc
Hopping mode supported	Standard/ Nonstandard/Mil High rate with Zero transmit loss circuitry
Max transmit time	35Min
Transmit harmonic distortion	57dBc for 2 <sup>nd</sup> & 3 <sup>rd</sup> 74dBc on 4 <sup>th</sup> and above
Tactical optional connector	Optional
2 Ch single fiber multiplexing	Optional
Optional supplied fibers	Standard or Tactical on a reel
Enclosure type	19"1U with optional Rugged outdoor aluminum pelican enclosure /Lightweight

## Ordering Information

Model Number	Description
MLNK2-03-08-33-1R-B1-02-ID-00	30-88MHz 2CH Radio Aerostat fiber extension system
MLNK2-PEL-NC-AC	Field pelican case set for Radio link 2Ch system
MLNK- EW5	5 years extended warranty program

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