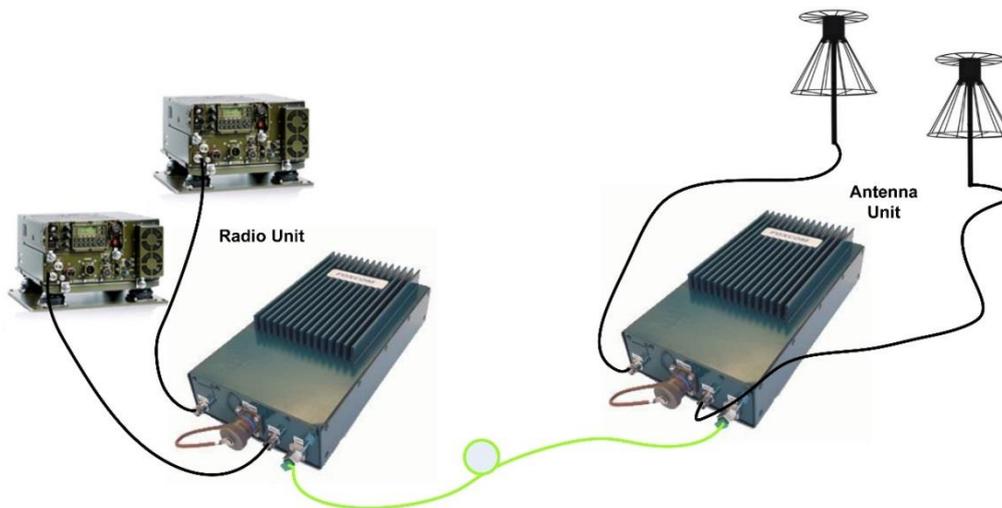




Sat-Light Military Series

Radio Fiber Optic Extension System



Applications

- Radio safe house and bunkers
- Balloon communication relay
- Border surveillance
- Antenna tower

Features & Benefits

- Ultra-low RF loss and lightweight
- Protection against lightning damage EMI & RFI
- Supports all frequency hopping schemes
- Dust-Proof Mechanism

Product Description

Foxcom's military radio fiber extension system is the ideal solution for remote antenna placement.

Foxcom's optical solution provides a cost effective alternative to coax cable deployments by harnessing the superior performance of fiber optics. This includes low RF transmission loss, improved signal quality, lightning protection, safety and ease of installation.

The equipment consists of two ruggedized units, one for the Radio-side (RSU) and another for the Antenna-side (ASU). The system supports two simultaneous radio channels, and is equipped with programmable microcontroller giving it universal adaptive hopping frequency support and Dust-Proof mechanism for maintaining constant RF performance levels.

Sat-Light Military Series

Specifications

Military Radio Fiber Extension System		
RF Spec		
System Frequency range	30-520MHz	
Radio supported / system channels	2	
VSWR	1:1.6	
Hopping support	All types including non-standard hi rate ones	
Transmit Path (Radio to Antenna)		
Input signal range (RSU) [total power]	up to +37dBm (5Watt)	
TX Path Noise figure (RSU to ASU)	<30dB	
TX path gain (RSU to ASU)	Auto adjustable	
TX power	2 x 33dBm (2 x 2Watt)	
Receive Path (Antenna to radio)		
Input signal range (ASU) [total power]	up to +10dBm	
Rx Path gain (ASU to RSU)	0dB/+10dB	
Rx path noise figure (ASU to RSU)	<5dB	
Receive sensitivity	<-114dBm	
Optical Specifications		
Required fiber type	Dual SMF-28 or equivalent [single mode]	
Optical wavelength	CWDM	
RSU/ASU optical power output	-3dBm / 0.5mW (Min)	
Optical connector	SC-APC or (D3 optional)	
Fiber length	20Km max (6dB).	
Environmental Specifications (Outdoor Unit)		
Temperature (MIL-STD-810G 501.5 / 502.5)	-32°C-49°C (operational), -32°C-71°C (storage)	
Humidity (MIL-STD-810G 507.5)	95% @ 35°C Non-condensing	
Physical Specifications		
	Indoor	Outdoor
RF connectors	Dual TNC Female	Dual TNC Female
Operating voltage/Current consumption	24VDC/1A	24VDC/5A
Dimensions	370x150x700 mm	370x150x700 mm

Ordering Information

Product Part Number	Description
MLNK2-3-52-2W-6DB	30-520MHz 2CH, 2Watt/CH Radio fiber extension system, SC-APC optical connectors, TNC RF ports.
PEL-MLNK2	Optional ruggedize carrying case for MLNK2