

# VSAT-LIGHT

by Foxcom

## Fiber Optic System for VSAT Terminals (Preliminary)

---



### Features & Benefits

- Cost Effective Fiber Optic System for VSAT Applications
- Compatible with leading VSAT System Manufacturers
- Extend Connections up to 1km
- Increased Protection from lightning damage, EMI and RFI
- IP 64 rated outdoor enclosure
- Remote DC powering

### Product Description

Foxcom's new, fully-integrated VSAT-LIGHT system provides a low-cost alternative to the traditional deployments of VSAT terminals. Designed to meet the requirements of service providers and integrators, the VSAT-LIGHT system harnesses the superior performance of fiber optic transceivers.

The VSAT-LIGHT system transports L-Band and 10 MHz RF signals over fiber optic cable. The VSAT-LIGHT system consists of an outdoor unit (ODU) with an optical transceiver and an indoor unit (IDU) with an optical transceiver. The RF signals are directly modulated adding virtually no phase noise to the original signal. The optical signals are transmitted over a distance of up to one kilometer. At the antenna site, the IP-64 rated ODU is capable of powering both the LNB and BUC.

***Foxcom's VSAT-LIGHT system optimizes antenna placement by eliminating the traditional distance limitations dictated by the coax cables.*** Foxcom's state-of-the-art VSAT-LIGHT system is the perfect solution for your corporate networks, rural telecoms, distance learning, disaster recovery; providing unparalleled reliability and cost saving benefits.

---

#### Corporate Office Israel

Beck Science Center  
8, Hartom St., Har Hotzvim  
Jerusalem 91450  
Tel: (+972) 2.589.9888  
Fax: (+972) 2.589.9898

[www.foxcom.com](http://www.foxcom.com)

#### US Office

Princeton Forrestal Village  
36 Main Street, Suite 300  
Princeton, NJ 08540  
Tel: (609) 514.1800  
Fax: (609) 514.1881

[sales@foxcom.com](mailto:sales@foxcom.com)

#### South Africa Office

Block 4, Kingfisher Office Park 2,  
28 Siphosethu Rd.,  
Mt. Edgecombe  
Durban, KwaZulu Natal  
Tel: (+278) 7.751.3911  
Fax: (+278) 6.501.6624

<b>Fiber Optic System for VSAT Terminal Specifications (Preliminary)</b>		
<b>L-Band Downlink</b>		
Frequency range	950 - 1900 MHz	
ODU input/IDU output VSWR	1:1.8	
ODU RF input signal range [total power]	-55 to -25 dBm	
IDU RF output power [total power] <sup>1</sup>	-40 dBm	
LNB powering	18 VDC 300mA max., short circuit protected	
<b>L-Band Uplink</b>		
Frequency range	950 - 1750 MHz	
IDU input/ODU output VSWR	1:1.8	
IDU RF input signal range [total power]	-20 to 0 dBm	
RF output power [total power] <sup>1</sup>	-5 dBm	
BUC powering over the ODU uplink RF connector	24 VDC 2A	
<b>10 MHz Uplink <sup>2</sup></b>		
Frequency range	10 MHz	
Input/Output VSWR	1:1.8	
IDU RF input signal range [total power] <sup>1</sup>	-20 to +5 dBm	
ODU RF Output power	0 dBm	
<b>Optical Specifications</b>		
Required fiber type	SMF-28 or equivalent [single mode]	
Optical wavelength	1310 ±10 nm	
IDU/ODU optical power output	-3 dBm / 0.5 mW	
Optical connector	FC / UPC	
Fiber length	1Km max.	
<b>Physical Specifications</b>		
	<b>Indoor</b>	<b>Outdoor</b>
RF Connectors	F-type Female	F-type Female
Dimensions [ H × W × D]	18 × 13 × 6 cm	18 × 13 × 8 cm
Power requirement	12VDC	24 - 28 VDC
Operating temperature	-20 to +55° C	-20 to +55° C
Current consumption	1A	3A

<sup>1</sup>. Within the optical budget

<sup>2</sup>. Optional

### Ordering Information

<b>Model Number</b>	<b>Description</b>
V8013130	<b>Bidirectional VSAT System</b>
V8013230	<b>Bidirectional VSAT System with 10MHz Up-link</b>
5810052	<b>ODU Remote DC power supply</b>