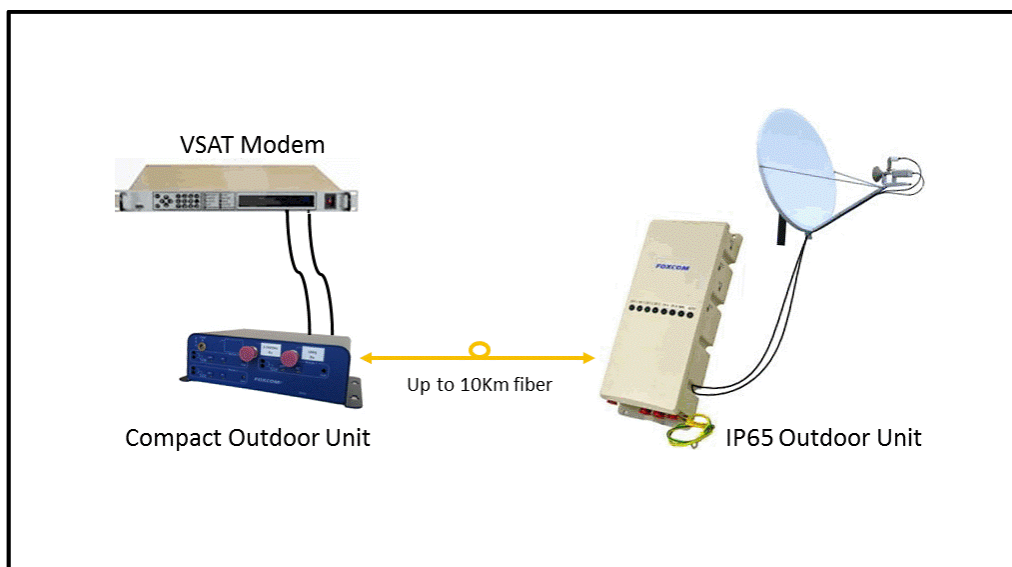




Sat-Light Gold Series

Compact Single Fiber VSAT System



Features & Benefits

- Uses a single fiber
- Optimized for VSAT hubs
- Ultra-low RF loss and lightweight
- Protection against lightning damage/EMI & RFI
- IP65-rated outdoor enclosure
- Both 50 and 75 Ohm versions
- 10MHz support

Product Description

Foxcom's new fully integrated, DIVN/COVN single fiber optic extension system provides, for the first time ever, a professional cost effective alternative to coax cable deployments. Harnessing the superior performance of fiber optics, this unique VSAT solution, which is optimized for the DIVN COVN platform, meets the special needs of VSAT service providers and is integrated around the globe.

The VSAT fiber optic solution is compact and flexible, making it an ideal solution for VSAT hubs of any size. The kit consists of the 4000 series outdoor unit (ODU) and a compact series

Sat-Light Gold Series

enclosure. The VSAT fiber solution provides bi-directional, L-band transport and a 10MHz reference signal needed for the BUC over a single fiber.

The ODU is an IP65-rated enclosure with a special conformal coating added to the internal components. This special coating adds to the durability of the unit by provided extra protection from humidity and salt corrosion.

Figure 1: Indoor Unit Layout

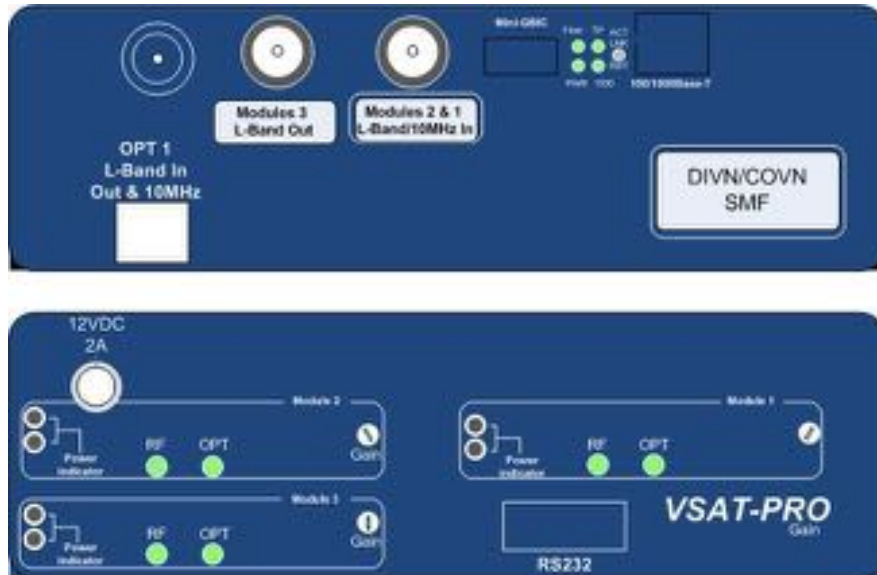
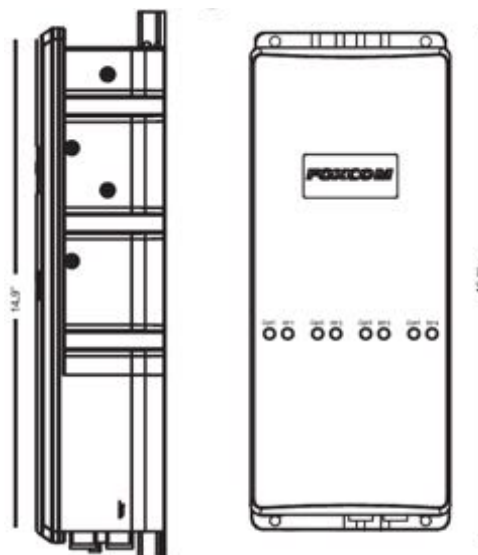


Figure 2: Outdoor Unit Mechanical Drawing



Specifications

4005 VSAT Pro Fiber Optic System Specifications		
L-Band Downlink		
Frequency range	950-2150MHz	
ODU input/IDU output VSWR	1:1.5	
ODU RF input signal range [total power]	-40 to -20dBm	
IDU RF output power [total power] ¹	-40 to -20dBm (±10dB Adjustable)	
Noise Figure	22dB	
LNB powering	18V, Optional 13V (300mA max, short circuit protected)	
L-Band Uplink		
Frequency range	950-2150MHz	
IDU input/ODU output VSWR	1:1.5	
IDU RF input signal range [total power]	-25 to +5dBm	
RF output power [total power] ¹	-25 to -5dBm (±10dB Adjustable)	
Noise Figure	25dB	
BUC powering over the ODU uplink RF connector	None	
10 MHz Uplink		
Frequency range	10MHz	
Input / Output VSWR	1:1.8	
IDU RF input signal range [total power]	-20 to 0dBm	
ODU RF Output power ¹	-15 to +5dBm (±10dB Adjustable)	
Optical Specifications		
Required fiber type	1 x SMF-28 or equivalent [single mode]	
Optical wavelength	1310 ±10nm	
Optical connector	SC-APC (IDU) FC-APC (ODU)	
Fiber length	3Km max.	
Physical Specifications		
	Indoor	Outdoor
RF Connectors	F-type F/SMA F	F-type F/N-type F
Dimensions	Compact Unit	14" x 6" x 3"
Operating temperature	-10 to +55° C	-20 to +55° C

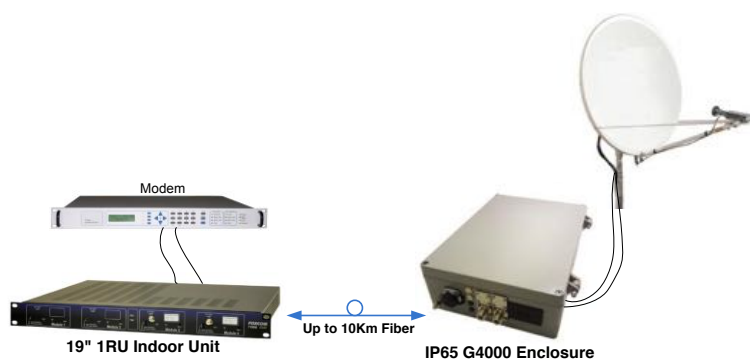
Ordering Information

Product Part Number	Description
V8013135	DIVN/COVN Single Fiber VSAT Pro System, 75 Ohm
V8013136	DIVN/COVN Single Fiber VSAT Pro System, 50 Ohm



Sat-Light Series

G4000 VSAT Pro System



Features & Benefits

- **Optimized for VSAT Hubs**
- **Ultra-low RF loss and lightweight**
- **Protection against lightning damage/EMI & RFI**
- **IP65-rated outdoor enclosure with Hot Swappable capabilities**
- **Both 50 and 75 Ohm versions available**
- **10MHz support**

Product Description

Foxcom's new fully integrated optical G4000 VSAT Pro solution provides a professional cost effective alternative to coax cable deployments. Harnessing the superior performance of fiber optics, the optical VSAT solution meets the special needs of VSAT service providers and integrators around the globe.

The VSAT fiber optic solution is compact and flexible, making it an ideal solution for VSAT hubs of any size. The kit consists of the G4000 Series Outdoor Unit (ODU), for outdoor support, and the 7190 1RU series chassis and power supply for indoor support. The VSAT fiber solution provides bi-directional L-band transport and a 10MHz reference signal needed for the BUC.

The G4000 ODU is an IP65-rated enclosure with Hot-swap capabilities, which enables the user to easily open the unit to replace or add modules. The G4000 ODU replaces Foxcom's previous G4005 ODU.

NOC's, Hubs, and other satellite facilities deploying Foxcom's VSAT solution, can now enjoy the many benefits that optical fiber has to offer, such as improved signal quality, lightning protection, safety, compatibility and ease of installation.

General Characteristics

G4000 VSAT Pro Fiber Optic System Specifications		
L-Band Downlink		
Frequency range	950-2150MHz	
ODU input/IDU output VSWR	1:1.5	
ODU RF input signal range [total power]	-40 to -20dBm	
IDU RF output power [total power] ¹	-40 to -20dBm (±10dB Adjustable)	
Noise Figure	22dB	
LNB powering	18V, Optional 13V (300mA max, short circuit protected)	
L-Band Uplink		
Frequency range	950-2150MHz	
IDU input/ODU output VSWR	1:1.5	
IDU RF input signal range [total power]	-25 to +5dBm	
RF output power [total power] ¹	-25 to -5dBm (±10dB Adjustable)	
Noise Figure	25dB	
BUC powering over the ODU uplink RF connector	None	
10 MHz Uplink		
Frequency range	10MHz	
Input/Output VSWR	1:1.8	
IDU RF input signal range [total power]	-20 to 0dBm	
ODU RF Output power ¹	-15 to +5dBm (±10dB Adjustable)	
Optical Specifications		
Required fiber type	3 x SMF-28 or equivalent [single mode]	
Optical wavelength	1310 ±10nm	
Optical connector	FC-APC	
Fiber length	3Km max.	
Physical Specifications	Indoor	Outdoor
RF Connectors	F-type F/SMA F	F-type F/N-type F
Dimensions	19" Wide 1U Chassis	34Lx29Wx11.7H cm
Operating temperature	-10 to +55° C	-20 to +55° C

¹ Within optical budget

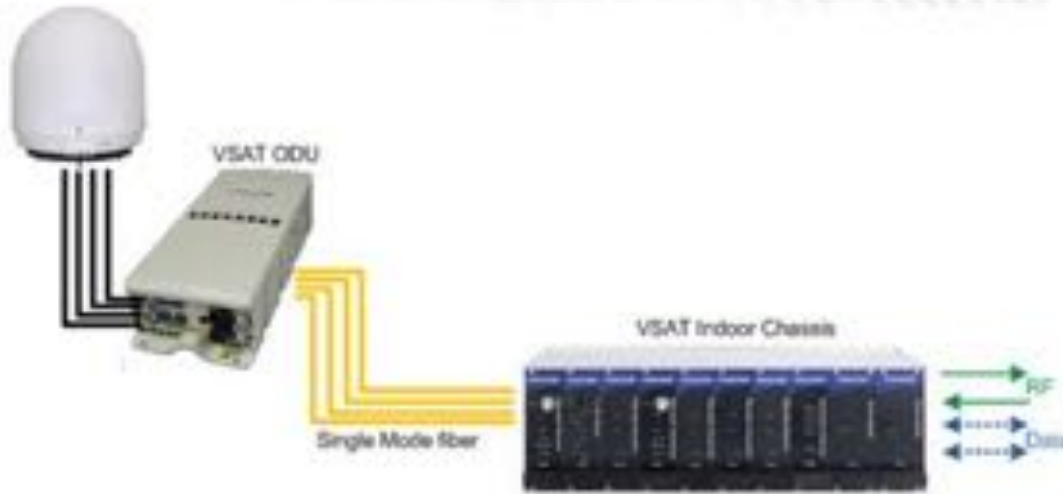
For more connector options, contact a Foxcom representative.

Ordering Information

Product Part Number	Description
V8015001	G4000 VSAT Pro Bidirectional System, 75 Ohm
V8015002	G4000 VSAT Pro Bidirectional System, 50 Ohm



Sat-Light Maritime Series



Features & Benefits :

- Optimized for maritime VSAT terminals
- Ultra low RF loss and lightweight
- Protection against lightning damage/ EMI & RFI
- IP67 rated outdoor enclosure
- Optional 1RU indoor enclosure
- 24vdc FSK powering

Product Description:

Foxcom's new fully integrated Maritime VSAT solution provides for the first time ever a cost effective alternative to coax cable deployments. Harnessing the superior performance of fiber optics, the VSAT Maritime solution meets the special needs of Maritime service providers and integrators around the globe.

The Sat-Light Maritime solution is compact and flexible, making it an ideal solution for both new and retrofit applications. The kit consists of the 4000 series outdoor unit (ODU), which is installed in the radome, and the 7000 series chassis and power supply below deck. The Maritime fiber solution provides bi-directional L-band transport and a 10MHz reference signal needed for the BUC. Two bi-directional RS422 ports allow the below desk equipment to control the antenna.

The ODU is an IP67 rated enclosure with a special conformal coating added to the internal components. This special coating adds to the durability of the unit by provided extra protection from humidity and salt corrosion.

Ships, yachts, oil rigs and other marine facilities deploying Foxcom's maritime solution, can now enjoy the many benefits that optical fiber has to offer, such as improved signal quality, lightning protection, safety, compatibility and ease of installation

Sat-Light Maritime Series

Maritime Fiber Optic System Specifications

L-Band Downlink

Frequency range	950-2150MHz
ODU input/IDU output VSWR	1:1.5
ODU RF input signal range [total power]	-40 to -20dBm
IDU RF output power [total power] ¹	-40 to -20dBm (±10dB Adjustable)
Noise Figure	22dB
LNB powering	Optional: 13/18 VDC 300mA max, short circuit protected

L-Band Uplink

Frequency range	950-2150MHz
IDU input/ODU output VSWR	1:1.5
IDU RF input signal range [total power]	-25 to +5dBm
RF output power [total power] ¹	-25 to -5dBm (±10dB Adjustable)
Noise Figure	25dB
BUC powering over the ODU uplink RF connector	None

10 MHz Uplink

Frequency range	10MHz
Input/Output VSWR	1:1.8
IDU RF input signal range [total power]	-20 to -3dBm
ODU RF Output power ¹	-15 to +5dBm (±10dB Adjustable)

Serial Communication

Number Of Channels	2
Serial type	RS422 (optional RS232)
Baud rate	300-19,200bps (Auto sensing)

Optical Specifications

Required fiber type	SMF-28 or equivalent [single mode]
Optical wavelength	1310 ±10nm
Optical connector	FC-APC
Fiber length	1Km max.

Physical Specifications

	Indoor	Outdoor
RF Connectors	F-type Female	F-type Female
Dimensions	19" Wide 3U Chassis	14" x 6" x 3"
Operating temperature	-10 to +55° C	-20 to +55° C

Ordering Information

Model Number	Description
V8013240	Bidirectional Maritime System

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