Intellian

Fiber Link

Fiber Optic Connections for the NX Platform
Connected at the Speed of Light

Fiber Link ADU
(inside Radome)

3+2
YEAR YEAR
PARTS LABOUR
GLOBAL WARRANTY

Fiber Link System

VSAT Fiber Link Solution

Exclusively designed for the Intellian v130NX and the v150NX. This provides benefits to customers, who providing a simple installation, reduced signal loss, and have cable runs of more than 100 meters.

Reduces Installation Time

Fiber optic cables are much lighter, more flexible and faster to install. Smaller through deck penetrations and tighter minimum bend radiuses allow for quicker and easier installation time.

Much Greater Bandwidth

Using Fiber enables much greater bandwidth capability compared to COX cable connections between the ADU and BDU. Ideal for high throughput installations.

Less Signal Attenuation

Fiber Link systems have very low signal loss, allowing for longer transmission distances. In comparison to copper, the longest recommended copper distance is 100m while with fiber, it is 2km.

Interference -Free

Fiber optic cables are immune to electromagnetic interference. It can therefore be run in electrically noisy environments as electrical noise does not affect fiber.

*Not supplied

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Technical Specifications

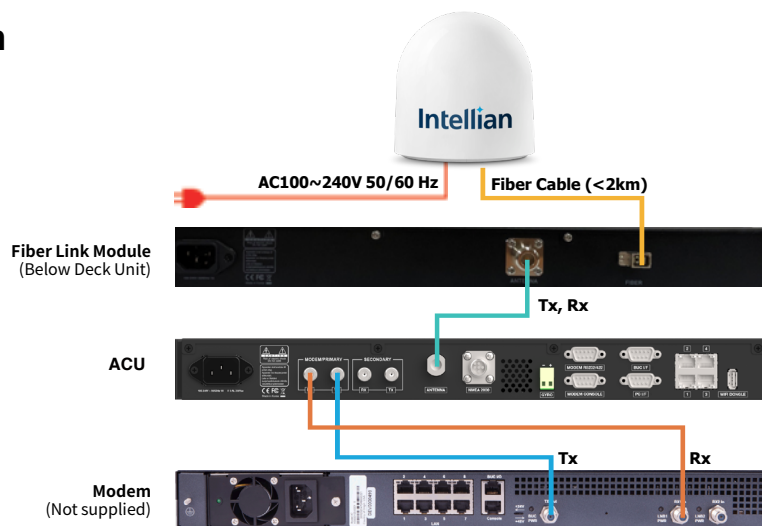| Mechanical Specification	
Above Deck Unit Size	300 x 240 x 45 (mm)
Above Deck Unit Weight	2.8 kg
Below Deck Unit Size	431 x 350 x 44.3 (mm)
Below Deck Unit Weight	3.7 kg
Optical Specification	
Frequency Range	10 MHz to 4500 MHz
Tx Link Gain	0±1.5dB @10MHz, 50MHz / 0±2dB @950~2200MHz
Rx Link Gain	0 ~ -5dB @ 433MHz / -10±5dB @3300~4500MHz
Link Gain Ripple (Any 10 MHz)	0.5dB p-p
Gain Stability (dB/24hr @ Room temp)	±1.0dB
Output IMD	40dBc @-5dBm Total input/5MHz step
Input/Output Impedance	50 ohm
Connector Type	SC-APC
Recommended Fiber Mode	Single Mode
Electrical Specification	
Max. Power Rating (ADU Module)	Input : 100 ~ 240 VAC, 50/60Hz, 3.3A Output : 48 VDC, 5.8A
Max. Power Rating (BDU Module)	100 ~ 240 VAC, 50/60Hz, 1A

System Diagram

AC100~240V 50/60 Hz   Fiber Cable (<2km)

Fiber Link Module
(Below Deck Unit)

Tx, Rx

ACU

Tx   Rx

Modem
(Not supplied)

Part No. 2020FIBERLINK-DS0401