



Technical Specification

ALIGNMENT

Control of the antenna is via the on board computer, which provides full auto point, auto acquisition and tracking functionality.

A simple one-button push will deploy the antenna and it will search and acquire the relevant satellite with no input from the operator. Built into the uPak60 is the bespoke SIS LIVE software package, designed specifically to ensure pointing and tracking is fast and accurate.

ENVIRONMENTAL

Temperature range:	Operational: -20 to +55°C
Wind Loading:	Operational: 28mph (45kph) Survival: 55mph (90kph)
Ingress Protection:	IP65
Humidity, shock, vibration:	MIL-STD-810G

PHYSICAL

Packaging:	Single IATA compliant case.
Weight:	23kg
External dims:	774mm (L) x 470mm (W) x 336mm (H)
ITAR Free	

uPak[®]60

One box, auto, HD

uPak[®]60 is an integrated and compact, fully automated VSAT terminal that provides a high bandwidth connection capable of high speed data transmissions.

With single button operation the unit can be used by anyone with little or no training. uPak60 is lightweight and extremely portable, designed to be transported as checked baggage on an airline or in a rucksack for remote field operations.

The system offers a high gain, for more throughput and enables uPak60 to transmit in less than optimal conditions.



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Features

- High performance 60cm parabolic segmented antenna
- Fully automated acquisition
- Integrated modem
- One box, rucksack or rugged carry case
- 24 VDC with MIL batteries or AC power
- Weatherproof to IP65
- MIL STD 810G compliant
- Ka, Ku and X band
- Also available with flat panel antenna
- ITAR free

Technical Specification

UPLINK

Ka Band	
Operating band:	Tx 29.5GHz to 31GHz Rx 18.7GHz to 21.2GHz
Transmit Gain:	43.4dBi
EIRP @ 30.5GHz:	55dBW
G/T @ 20.7GHz:	17.2dBk
Polarisation:	RHCP switchable to LHCP (Rx orthogonal to Tx) Linear (Option)

Ku Band	
Operating band:	Tx 13.75GHz to 14.5GHz Rx 10.95GHz to 12.75GHz
Transmit Gain:	37dBi
EIRP @ 14.15GHz:	49.5dBW
G/T @ 11.7GHz:	12.7dBk
Polarisation:	Linear (H/V), Rx orthogonal to Tx

X Band	
Operating band:	Tx 7.9GHz to 8.4GHz Rx 7.25GHz to 7.75GHz
Transmit Gain:	31.9dBi
EIRP @ 8.15GHz:	44dBW
G/T @ 7.5GHz:	9.8dBk
Polarisation:	RHCP switchable to LHCP (Rx orthogonal to Tx)

REFLECTOR

Antenna:	Segmented 60cm parabolic
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MODEM

Options available:
iDirect, Comtech, SkyWAN, Proteus, Paradise, external L-Band interface

EXTERNAL INTERFACES

2 x Wired Ethernet :	RJ45
Mil 188-114A (Modem Specific):	26W Amphenol 62GB-12E-16-26S
L-Band Rx monitor:	N-Type
L-Band Tx Modem Output:	N-Type
L-Band Tx Input:	N-Type
AC Input (90-260V):	Amphenol C01620C00310012
DC Input (11-36V) :	Amphenol C01630C00610012 Input Filtering and Surge protection to meet MIL Std: 1275, Mil Std 461

CONTROL

Operating range:	El: 0 to +90°, Az: ± 200°, Pol: ± 95°
Terminal user interface:	Simple to operate embedded PC based GUI system
Satellite Acquisition:	Automatic via modem lock and/or beacon receiver with manual override
Remote interface:	Laptop PC, connected with wired Ethernet

POWER

Input voltage range:	90 to 260VAC (50/60Hz) or 11 to 36VDC
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