FA-100 ANTENNA

FEATURES

- AVAILABLE IN X, Ku & Ka BANDS
- INTEGRATED MODEM
- FULL AUTO ACQUIRE ONE BUTTON OPERATION
- ROBUST CARRY CASE WITH BACKPACK OPTION
- MIL-STD-810G COMPLIANT
- AC OR DC POWERED

COMPACT & LIGHTWEIGHT AUTO DEPLOY MANPACK TERMINAL

The FA-100 is a fully automated integrated satellite terminal providing the user with high capacity bandwidth in a simple to use motorised VSAT terminal.

A selection of commercially available modems can be integrated in the FA-100 system to give the user maximum flexibility to bring the terminal into their chosen network.

One button operation means the user can be on air in minutes, and requires minimal in-field operational training.

The terminal is designed to be modem agnostic and can house a number of modem options including, but not limited to:

iDirect e150mp
iDirect e850mp
iDirect 950mp
Comtech DMD1050
Paradise Q-Lite
Viasat CBM-100

It is possible to bypass or omit an internal modem and connect an external modem using the L-band interfaces.

GigaSat products have a reputation for being the most robust yet portable antenna systems available, and the FA-100 is no different.

Construction from high strength carbon fibre means the terminal is both lightweight and capable of withstanding the rigours of multiple deployments in testing environments.

A number of packaging options are available depending upon customer preference.

The terminal many be placed into a 'Stealth' mode whereby speed of acquisition is traded off with motor noise, thus making the terminal almost silent in operation, whilst still acquiring the satellite in minutes.

GigaSat

Ultra ELECTRONICS

SPECIFICATIONS

General

Antenna Type	Parabolic (Segmented), centre fed
Diameter	1.0m
Polarisation	Linear Orthogonal for Ku-band, optional for Ka-band RHCP, switchable to LHCP, for X-band and Ka-band

Transmit

Transmit Bands	FA-100/70 FA-100/140 FA-100/300	7.9 to 8.4GHz 13.75 to 14.5GHz 27.5 to 31GHz
Transmit Gain	FA-100/70 FA-100/140 FA-100/300	36.4dBi 41.2dBi 47.7dBi
Transmit EIRP (PSat)	FA-100/70 FA-100/140 FA-100/300	52.9dBW (50W BUC) 58.0dBW (55W BUC) 61.1dBW (25W BUC)
Transmit EIRP (PLin)	FA-100/70 FA-100/140 FA-100/300	50.9dBW (50W BUC) 56.0dBW (55W BUC) 59.1dBW (25W BUC)
Higher EIRPs are possible using larger BUC and external power supply		

Receive

Receive Bands	FA-100/70 FA-100/140 FA-100/300	7.25 to 7.75GHz 10.7 to 12.75GHz 18.7 to 21.2GHz
Receive G/T	FA-100/70 FA-100/140 FA-100/300	15.2dB/K 18.6dB/K 21.1dB/K
Receive Gain	FA-100/70 FA-100/140 FA-100/300	35.7dBi 39.5dBi 44.3dBi

Power

Power Requirement	90 to 264V AC Power Supply +24VDC 'Hot swappable' MIL batteries (option)
Power Consumption	100W to 280W

Environmental

Temperature	-40 to +70°C - Transportation & Storage -30 to +55°C - Operational	
Humidity	1 to 100%	
Wind Rating	Operational	50km/h with gusts to 70km/h
	Survival	100km/h (stowed)
Altitude	3,000m @ -10°C	

Physical

Packed Size	0.70 x 0.40 x 0.37m Size above is for a baseline configuration
Weight	19kgs Weight above is for a baseline configuration
Packaging	Any packaging is possible: Hard case Semi-hard case Rucksacks

Multiple FA-100's

making a difference