

Compact, Light, High Speed, Cheetah Flyaway VSAT System

Compact, Light, High Speed, Cheetah Flyaway VSAT System



Designed for homeland defense and emergency response missions, the industry renowned Cheetah™ flyaway VSAT system provides remote Internet and virtual private network (VPN) connectivity from anywhere in the world. Contained in just two, low-weight cases, the Cheetah provides high-speed data communications for Internet, VPN connectivity, video transmission, surveillance, or reconnaissance.

Each case weighs less than 75 lbs. and includes a fully auto-acquire .9M elliptical antenna system, outdoor unit (ODU) with embedded iDirect iConnex™ modem, 40 W BUC/SSPA, controller/processor and Ethernet switch.

The ViewSAT® terminal control software provides monitor and control of the terminal through the use of an intuitive graphical user interface (GUI); One button auto-acquisition means systems are rapidly deployed, controlled and monitored with minimal training.

Features

- ✓ Latest-generation embedded iDirect iConnex™ e800 Evolution modem and 40 W wideband BUC/SSPA.
- ✓ Rugged design for outdoor use in harsh environmental conditions
- ✓ Field connectivity over CAT-5 cable eliminates heavy IFL cables

- ✓ One button auto-acquisition solution based on proven motorized Roto-Lok cable drive for reliable positioning and algorithms with the latest iDirect SNR tuning
- ✓ Includes automatic polarization adjustment that rotates the reflector to align the major axis
- ✓ Internal power conditioning in accordance with MIL-STD-1275B allowing the Cheetah™ to be powered from military vehicles
- ✓ ViewSAT® Terminal Monitor and Control software simplifies deployment and operation
- ✓ Modem bypass capability allows inter-operation with standard L-Band modems
- ✓ Complies with rigorous MIL-STD-810F

Cheetah Battery Box

AT Communication ©

- ✓ 30-90 Minutes of battery backup depending on usage
- ✓ LED Display
- ✓ Blackout switch
- ✓ Lightweight (25.5lb)
- ✓ Dimensions 16.2" x 12.7" x 6.6"
- ✓ Contains 4 UBI-2590 rechargeable batteries
- ✓ Wide AC input range 85 V to 264 VAC
- ✓ Weatherproof when closed
- ✓ Operating Temperature 5 °C to 38 °C (limited by UBI-2590 capability)
- ✓ Filtered AC throughput
- ✓ Transition in AC Power to DC



System Specifications

ANTENNA / PEDESTAL	
Reflector	90 x 66 cm Elliptical, segmented carbon fiber
Optics	Offset, prime focus
Az/EI/Pol Drive System	Patented Roto-Lok 3-axis Positioner
Controller	DVB reference satellite or iDirect SNR tuning. One button deploy fully automatic satellite acquisition, peaking, and cross pol adjustment using GPS, compass and level sensor inputs, certified for auto-commissioning on certain satellite systems; one button stow
Auto Positioning Accuracy	<+/-0.1°
Elevation	15 to 75° of boresight
Azimuth	180°

Polarization	Motorized +/- 75° manual H/V selection
Antenna Midband Gain	Transmit: 39.0 dBi Receive: 37.8 dBi
TX Radiation Compliance	FCC #25.209, ITU-R S.528.5
Cross-Pol Isolation	On-Axis: 35 dB TX 30 dB RX Off-Axis: 28 dB TX 28 dB RX
Satellite System Compliance	PanAmSat, Intelsat, Eutelsat
Satellite Approval	PanAmSat USA-8189 FCC SES-STA-20080606-00713
BAND SUPPORT	
LNB: three provided to ensure global coverage of the Ku-Band	
RF PERFORMANCE	
Band 1	10.95 to 11.70 GHz; NF=.8dB
Band 2	11.70 to 12.20 GHz; NF=.8dB
Band 3	12.25 to 12.75 GHz; NF=.8dB
Transmit (Tx)	13.75 to 14.5 GHz
Receive (Rx)	10.95 to 12.75 GHz
EIRP (dBW)	51.8 dBW (25-watt SSPA) (53.8, 40 W)
G/T (dB/K)	17.4 dB/K @ 20° elevation
MODEM INTEGRATION	
iDirect e800	
INTERFACES	
# of ports	4 LAN or 3 LAN plus DSL option
POWER	
AC	90 – 132 and 180 – 264 VAC auto-ranging; 47–440Hz
DC	28 VDC per MIL-STD-1275B
Consumption	1000 VA Max
MECHANICAL	
Hard cases (standard): 2 airline checkable Antenna System: 24.6 x 19.7 x 14.4 inches RF System: 24.6 x 19.7 x 14.4 inches Weight: Antenna and RF Systems: 74 lbs each	
ENVIRONMENTAL	
Temperature Operational: -32°C to +50°C Storage: -40°C to +60°C	
Wind Loading Operational: 25 mph Survival: 30 mph gusting to 45 mph with anchoring weights	

Compact, Light, High Speed, Cheetah™ Flyaway - VSAT System - Military - Terminal