Global Communications Solutions (GCS)

HAWKEYE™ III LITE

1.2M TRI-BAND VSAT

Whether the need is remote Internet/VPN, live videoconferencing, surveillance or reconnaissance, the Hawkeye™ III Lite 1.2M Auto-Acquire, Tri-Band Flyaway VSAT system provides high data rate communications of 2-5 Mbps as determined by the link parameters. This lightweight solution can be deployed in a matter of minutes utilizing the auto-acquire antenna system, ViewSat GUI, and the GCS universal Outdoor Unit (ODU). The ODU includes the latest version of the iDirect Evolution iConnex™ e800 modem, LAN switch and a control processor. The complete system consists of two hard sided cases which house the ODU, auto-acquire antenna pedestal, controller, 6-segment carbon fiber circular reflector, boom and feed, and three LNB's for global coverage.

System Features:

- Light-weight two or three case design (as determined by system configuration)
- Embedded iDirect iNFINITI® iConnex 700 or iDirect Evolution® iConnex e800 modem with DVB-S2/ACM
- Segmented carbon fiber reflector offers high performance and light weight
- Robust auto-acquisition to support Ku, X, and Ka bands
- Interchangeable Feed Boom design allows for easy RF Band change
- Common architecture to GCS Hawkeye™ III Series systems
- 4 LAN ports or 3 LAN ports plus DSL option
- MIL-STD-810F tested

Applications:

- Quick-deploy voice, data, and video
- Military command/control or logistic support communications
- Deployable Homeland Defense or Emergency Response communications
- Worldwide remote Internet/VPN connectivity
- VoIP or Video-Conferencing

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Antenna and RF System (Ku-Band):

Pedestal: Motorized, cased based, fully auto-acquire

Reflector type: 1.2M segmented carbon fiber

Optics: Offset, Prime Focus, 0.6 F/D

Azimuth: +90° to -90°

Elevation: +10° to +85° of boresight

IFL: 50 ft. LAN, 25 ft AC Power

Wind Loading:

Operational: 30 mph, gusting to 45mph (with anchors)

Input Power: 800 VA (MAX)

Temperature:

Operational -32°C to +50°C

Storage -40°C to +60°C

Weight: Case 1: <100 lbs.

Case 2: <100 lbs.

Universal Outdoor Modem Unit (ODU):

- MIL-STD-810F tested
- Rugged design for outdoor usage
- Embedded iDirect iNFINITI® iConnex 700 or iDirect Evolution® iConnex e800 modem with DVB-S2/ACM
- Embedded Ethernet switch
- 4 LAN ports
- DSL port option

G/T and EIRP:

Band	Receive (GHz)	Transmit (GHz)	G/T (dB/K)	EIRP (dB/W)
X	7.25 - 7.75	7.90-8.40	16.8	53.4 (40W)
Ku	10.95 - 12.75	13.75 - 14.50	20.7	56.2 / 58.2 (25W / 40W)
Ka	20.2 - 21.2	30.0 - 31.0	22.6	61.1 (20W)

Note 1: G/T at mid-band frequency and 20 degrees elevation.

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