

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 2-5Mbps 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 Evolution iConnex™ e800 modem capable of DVB-S2
- 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

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:	+7° to +80° of boresight
IFL:	50 ft. LAN, 25 ft AC Power
Wind Loading:	
Operational:	25 mph
Survival:	30 mph, gusting to 45mph (with anchors)
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	16.3	51
Ku	10.95 - 12.75	13.75 - 14.50	20.6	56.1/58.1 (25/40W)
Ka	20.2 - 21.2	30.0 - 31.0	22.2	54.5

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