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Hawkeye™ III Series

Multiband VSAT Terminals

L3

GCS

The Hawkeye™ III VSAT System

Common Architecture

The latest generation Hawkeye™ VSAT, the Hawkeye™ III, now gives the user the ability to switch between bands and apertures without having to purchase an additional system. The Hawkeye™ III terminals range in antenna size from 1.2M to 2.4M and utilize an enhanced ODU to eliminate reconfiguration and allow commonality of control. A simple swap of the feed boom assembly is all that is required to switch between bands. The Hawkeye™ series VSATs are proven reliable, lightweight and now even easier to use!

System Features

- Enhanced ODU
- Segmented carbon fiber reflector offers high performance and light weight
- Robust auto-acquisition to support Ku-, X-, Ka-, and C-Bands
- Interchangeable Feed Boom design allows for easy RF Band change
- Interchangeable reflector design allows user to switch easily between aperture sizes
- 4 LAN ports or 3 LAN ports plus DSL option
- MIL-STD-810G tested
- Type-approved for Global Xpress



Enhanced ODU

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



Common GCS ViewSAT™ GUI across all platforms

ViewSAT™ is specifically designed to monitor and control the Hawkeye™ and Cheetah™ series of VSAT terminals. The monitor and control is provided for the embedded iDirect modem, Antenna controller and some select BUC/SSPAs.

Frequency Bands and Availability:

Band	Receive (GHz)	Transmit (GHz)	Feed	1.2M	1.6M	2.0M	2.4M
C	3.625 to 4.20	5.85 to 6.425	Cir or Lin	N	N	Y	Y
X	7.25 to 7.75	7.90 to 8.40	Cir	Y	Y	Y	Y
Ku	10.95 to 12.75	13.75 to 14.50	Lin	Y	Y	Y	Y
Ka	20.2 to 21.2	30.0 to 31.0	Cir	Y	Y	Y	Y

G/T and EIRP:

	G/T (dB/K)				EIRP			
	C-Band	X-Band	Ku-Band	Ka-Band	C-Band	X-Band	Ku-Band	Ka-Band
1.2M	-	16.3	20.5	23.0	-	53.9	40W: 58.2	60.9
1.6M	-	18.2	22.2	25.2	-	57.3	40W: 60.3	66.0
2.0M	17.0	20.1	24.6	27.1	55.8	59.2	40W: 62.3	67.9
2.4M	18.6	21.7	26.2	28.7	57.3	60.8	40W: 63.8	69.5

Note 1: G/T at mid-band frequency and 20 degrees elevation.
Note 2: For 1.6M, 2.0M and 2.4M systems, EIRP assumes standard 40W: C band, 60W: X band, 50W: Ka- Band
Note 3: For 1.2M EIRP assumes 40W: for X-Band, 20W: for Ka-Band.
Note 4: For ARSTRAT certified X-Band systems, EIRP may vary.



Hawkeye™ III Lite 1.2M System

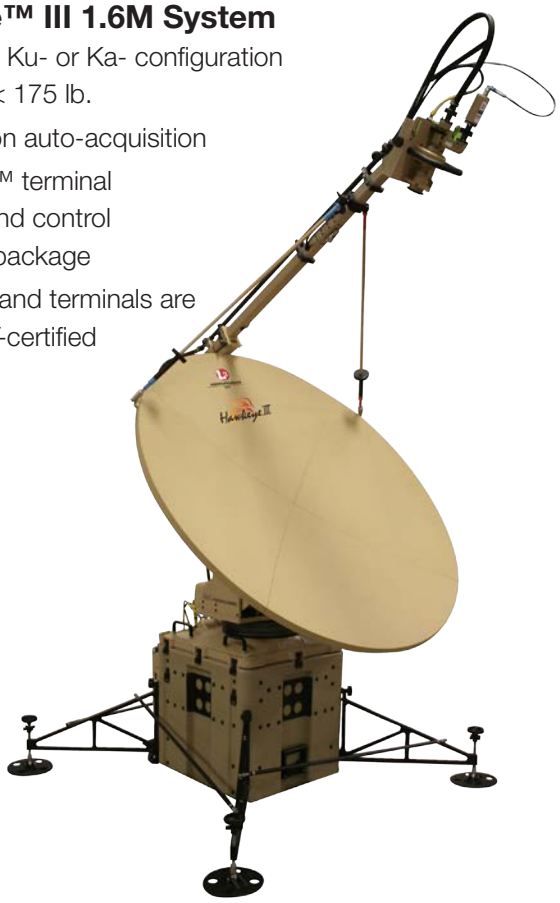
2 cases: X-, Ku- or Ka- configuration
Each case < 100 lb.

- One button auto-acquisition
- ViewSAT™ terminal monitor and control software package
- X- & Ka-Band terminals are ARSTRAT-certified

Hawkeye™ III 1.6M System

6 cases: X-, Ku- or Ka- configuration
Each case < 175 lb.

- One button auto-acquisition
- ViewSAT™ terminal monitor and control software package
- X- & Ka-Band terminals are ARSTRAT-certified



Hawkeye™ III 2.0M System

7 cases: X-, Ku- or Ka- configuration
8 cases: C- configuration
Each case < 175 lb.

- One button auto-acquisition
- ViewSAT™ terminal monitor and control software package
- X- & Ka-Band terminals are ARSTRAT-certified



Case quantities are based on original system configuration.

Hawkeye™ III 2.4M System

7 cases: X-, Ku- or Ka- configuration
8 cases: C- configuration
Each case < 175 lb.

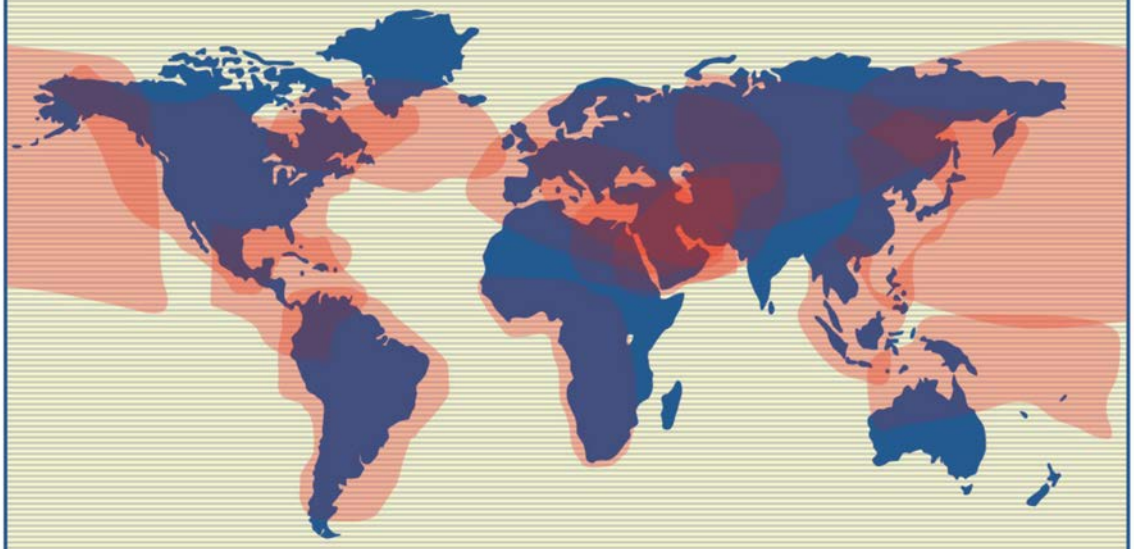
- One button auto-acquisition
- ViewSAT™ terminal monitor and control software package
- X- & Ka-Band terminals are ARSTRAT-certified



System Specifications

AC Power	90-264 VAC, 47 - 440 Hz, Power Factor corrected
Operational Temperature	-32 ºC to +50 ºC
Storage Temperature	-40 ºC to +60 ºC
Wind (Operational)	30 MPH gusting to 45 MPH (with anchors)
Feed	Offset, Prime Focus, 0.8 F/D (0.83 F/D on 2.4M); 0.6 F/D on 1.2M
Reflector	Segmented Carbon Fiber
Az/El/Pol Drive System	Patented Roto-Lok elevation over azimuth with motorized linear feed
Controller	DVB Reference Satellite or iDirect SNR tuning. One button fully automatic satellite acquisition (all 3 axis) using GPS, compass, and level sensor inputs.
Accuracy	< ± 0.1º All axis
Data Interface	10/100 BT Ethernet (CAT-5) 4 ports. 10/100 BT Ethernet (CAT 5) 3 ports plus 1 DSL Port. (optional)
Modem Options	Embedded iDirect Evolution® iConnex e800 modem. (L-Band Interface for external modem located on pedestal)
Tracking	Optional Beacon Receiver and software. (N/A on 1.2M)

Coverage Area



Teaming with our L-3 3Di partner we now offer the perfect addition to our Hawkeye III Series of Terminals – VSAT satellite network services that provide enterprise and military-quality satellite bandwidth and services around the world.

GCS

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