



*Hawkeye III*

**Hawkeye™ III Series**  
Multiband VSAT Terminals



**communications**  
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 a universal 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

- Universal 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-810F tested



## Universal ODU

- MIL-STD-810F tested
- Rugged design for outdoor usage
- Embedded iDirect iFINITI® iConnex 700 or 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 - 4.20	5.85 – 6.425	Cir or Lin	N	N	Y	Y
X	7.25 - 7.75	7.90 – 8.40	Cir	Y	Y	Y	Y
Ku	10.95 - 12.75	13.75 – 14.50	Lin	Y	Y	Y	Y
Ka	20.2 - 21.2	30.0 – 31.0	Cir	Y	Y	Y	N

## 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	-	16.8	20.7	21.7	-	53.4	25W: 56.2 40W: 58.2	61.1
1.6M	-	19.6	22.8	25.1	-	55.5	25W: 58.2 40W: 60.2	67.3
2.0M	16.9	20.7	25.1	27.1	55.7	57.8	25W: 60.3 40W: 62.3	68.3
2.4M	18.5	21.7	26.1	-	57.2	60.1	25W: 61.4 40W: 63.4	-

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. Each case < 100 lbs

Ku/ X / Ka

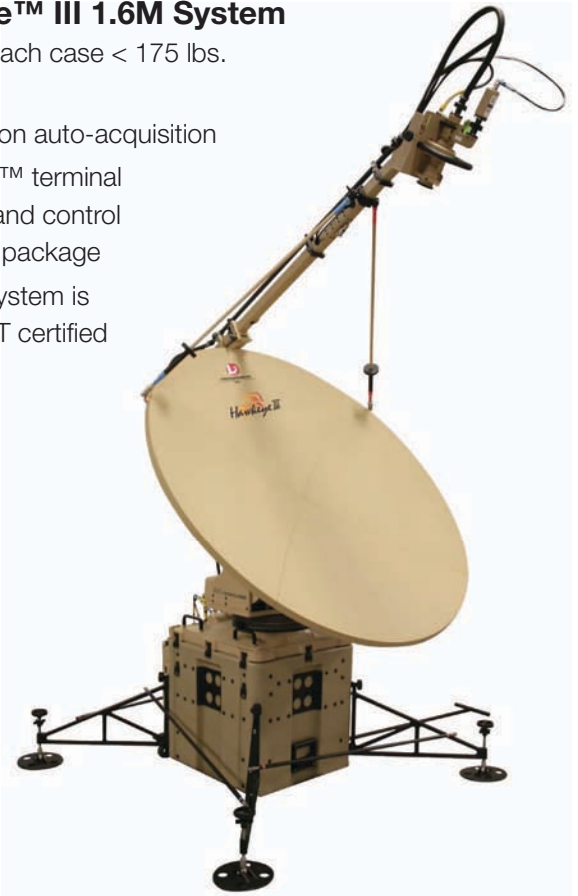
- One button auto-acquisition
- ViewSAT™ terminal monitor and control software package

### Hawkeye™ III 1.6M System

6 cases. Each case < 175 lbs.

Ku/ X / Ka

- One button auto-acquisition
- ViewSAT™ terminal monitor and control software package
- X band system is ARSTRAT certified



### Hawkeye™ III 2.0M System

7 cases: X, Ku or Ka configuration

8 cases: C configuration

Each case < 175 lbs.

- One button auto-acquisition
- ViewSAT™ terminal monitor and control software package
- X band system is ARSTRAT certified



Case quantities are based on original system configuration.

### Hawkeye™ III 2.4M System

7 cases: Ku, X

8 cases: C

Each case < 175 lbs.

- One button auto-acquisition
- ViewSAT™ terminal monitor and control software package
- X band system is ARSTRAT certified





# System Specifications

<b>AC Power</b>	90-132 and 180-264 VAC Auto-ranging 47 – 440 Hz
<b>Operational Temperature</b>	-32° to +50° C
<b>Storage Temperature</b>	-40° to +60° C
<b>Wind (Operational)</b>	30 MPH gusting to 45 MPH (with anchors)
<b>Feed</b>	Offset, Prime Focus, 0.8 F/D (0.83 F/D on 2.4M); 0.6 F/D on 1.2M
<b>Reflector</b>	Segmented Carbon Fiber
<b>Az/EI/Pol Drive System</b>	Patented Roto-Lok elevation over azimuth with motorized linear feed
<b>Controller</b>	DVB Reference Satellite or iDirect SNR tuning. One button fully automatic satellite acquisition (all 3 axis) using GPS, compass, and level sensor inputs.
<b>Accuracy</b>	< ± 0.1° All axis
<b>Data Interface</b>	10/100 BT Ethernet (CAT-5) 4 ports. 10/100 BT Ethernet (CAT 5) 3 ports plus 1 DSL Port. (optional)
<b>Modem</b>	Embedded iDirect iNFINITI® iConnex 700 or iDirect Evolution® iConnex e800 modem. (L-Band Interface for external modem)
<b>Tracking</b>	Optional Beacon Receiver and software.

### SATCOM Group 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.



SATCOM Group

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