



*Hawkeye III*

**Hawkeye™ III Series**  
Multiband VSAT Terminals



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

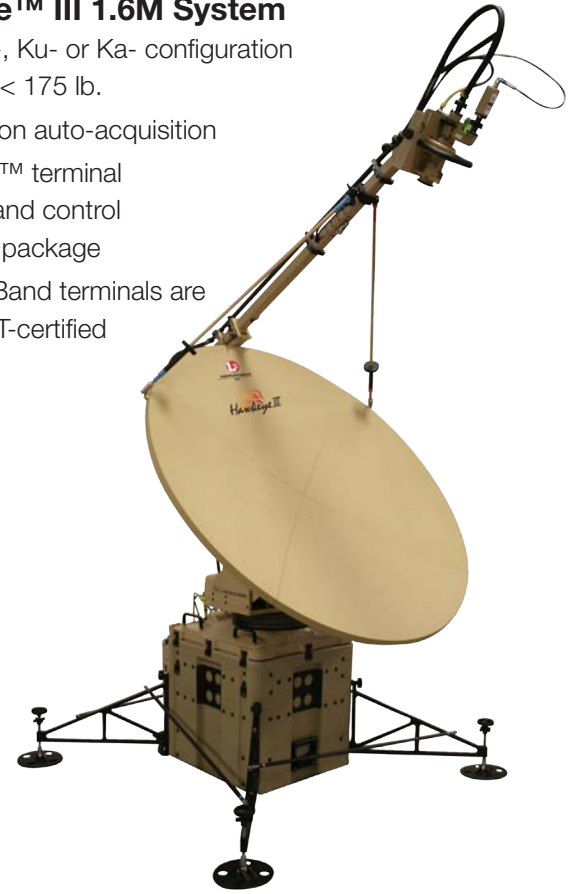
2 cases: X-, Ku- or Ka- configuration  
Each case < 100 lb.

- 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

|                                |   |
|--------------------------------|---|
| <b>AC Power</b>                | 90-264 VAC, 47 - 440 Hz, Power Factor corrected   |
| <b>Operational Temperature</b> | -32 °C to +50 °C  |
| <b>Storage Temperature</b>     | -40 °C 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.<br>10/100 BT Ethernet (CAT 5) 3 ports plus 1 DSL Port. (optional)   |
| <b>Modem Options</b>           | Embedded iDirect Evolution® iConnex e800 modem.<br>(L-Band Interface for external modem located on pedestal)  |
| <b>Tracking</b>                | 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.



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