

# The Hawkeye III VSAT System for Rapid Deployment of Voice, Data, Video

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### Common Architecture, Lightweight and Reliable

AT Communications International now offers Hawkeye™ III, the latest generation of the industry-renowned VSAT equipment, are proven, reliable, lightweight and now even easier to use. Giving users the ability to switch between bands and apertures without having to purchase an additional system, the Hawkeye™ III series VSATs range in antenna size from 1.2M to 2.4M, and utilize an enhanced outdoor unit (ODU) to eliminate reconfiguration and allow common control. In fact, a simple swap of the feed boom assembly is all that is required to switch between bands.

### System Features

- ✓ Enhanced outdoor unit (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 ViewSAT™ Graphical User Interface (GUI) across all platforms



Available for all platforms, the ViewSAT™ GUI 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.

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**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**

**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



**Hawkeye™ III 2.4M 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

- ✓ 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 – certifiedBack



### System Specifications

Frequency Bands and Availability:							
Band	Recieve (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

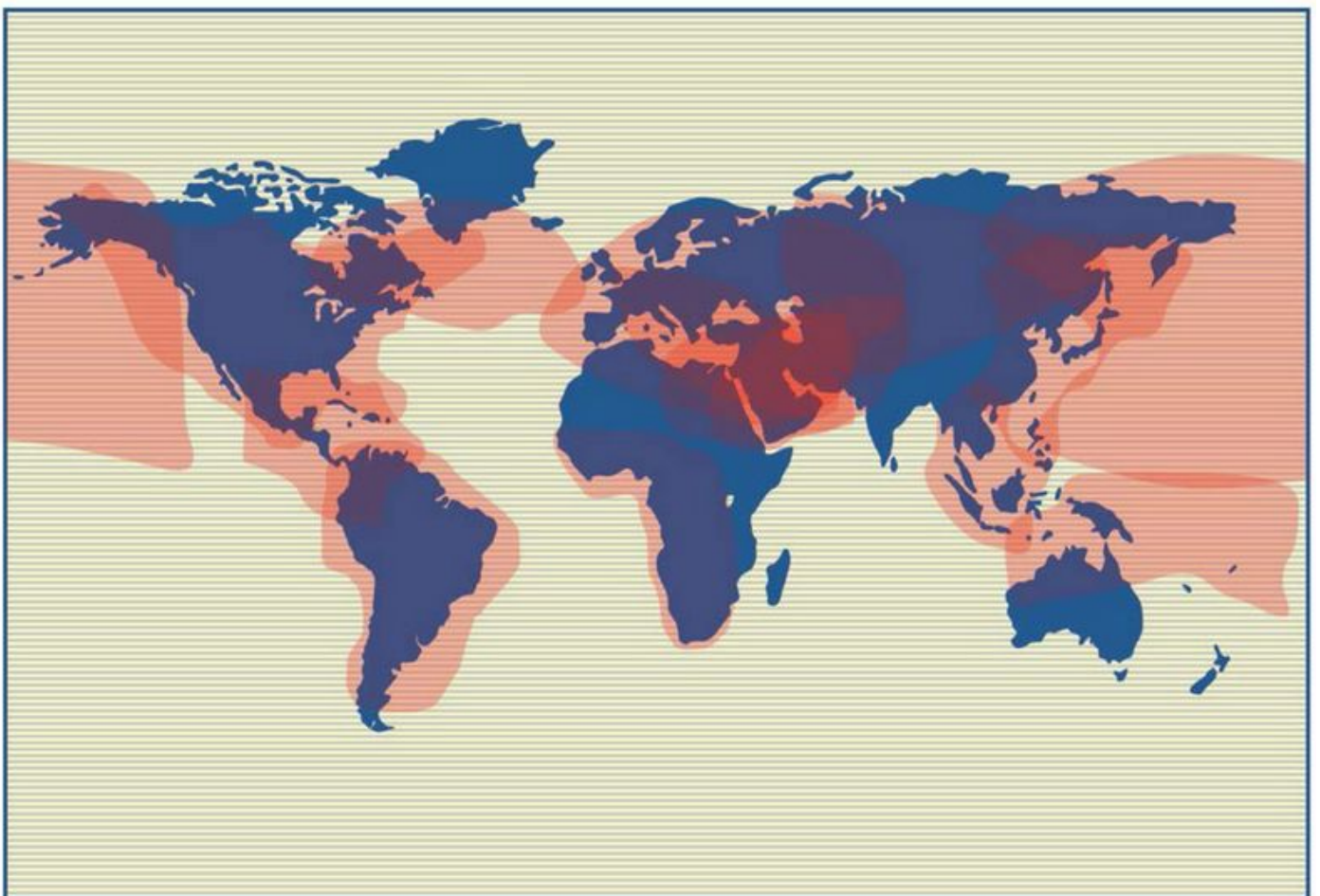
G/T and EIRP:								
	G/T (dB/K)				EIRP			
	C-Band	X-Band	Ku-Band	Ka-Band	C-Band	X-Band	Ku-Band	Ka-Band
1.2M	-	16.3	20.5	23.0	-	53.9	40W: 58.2	60.9
1.6M	-	18.2	22.2	25.2	-	57.3	40W: 60.3	66.0
2.0M	17.0	20.1	24.6	27.1	55.8	59.2	40W: 62.3	67.9
2.4M	18.6	21.7	26.2	28.7	57.3	60.8	40W: 63.8	69.5

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.

AC Power	90-264 VAC, 47 - 440 Hz, Power Factor corrected
Operational Temperature	-32 °C to +50 °C
Storage Temperature	-40 °C to +60 °C
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/EI/PoI 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	< ± 0.1° 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)



*AT Communications teams with L-3 3Di to provide worldwide VSAT satellite network services for enterprise and military missions.*

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