



Hawkeye™ III Series Multiband VSAT Terminals



communications
GCS

System Features and Benefits

Common architecture

- Universal RF kits across antenna sizes
- Segmented carbon fiber antennas
- GCS ODU based architecture eliminates need for IFL
- Robust auto-acquisition to support all four bands: Ku, X, C and Ka

Configurable to customer needs

- Three aperture options: 1.6M, 2.0M, 2.4M
- Four frequency band options: Ku, X, C and Ka
- Auxiliary band kits available as required
- iDirect iNFINITI® iConnex 700 or iDirect Evolution® iConnex e800 modem options
- Optional DSL interface
- Tracking controller option



Hawkeye™ III 1.6M System

6 cases Each case < 175 lbs. Ku/X/Ka

- One button auto-acquisition
- Embedded iDirect iNFINITI® iConnex 700 or iDirect Evolution® iConnex e800 modem
- ViewSAT™ terminal monitor and control software package



Common GCS ViewSAT™ GUI across all platforms

ViewSAT™ is a monitor and control application designed to bring simple remote terminal operation through the use of an intuitive Graphical User Interface (GUI). It 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.



Universal 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



Hawkey™ III 2.0M System

7 cases Each case < 175 lbs. Ku/X/C/Ka

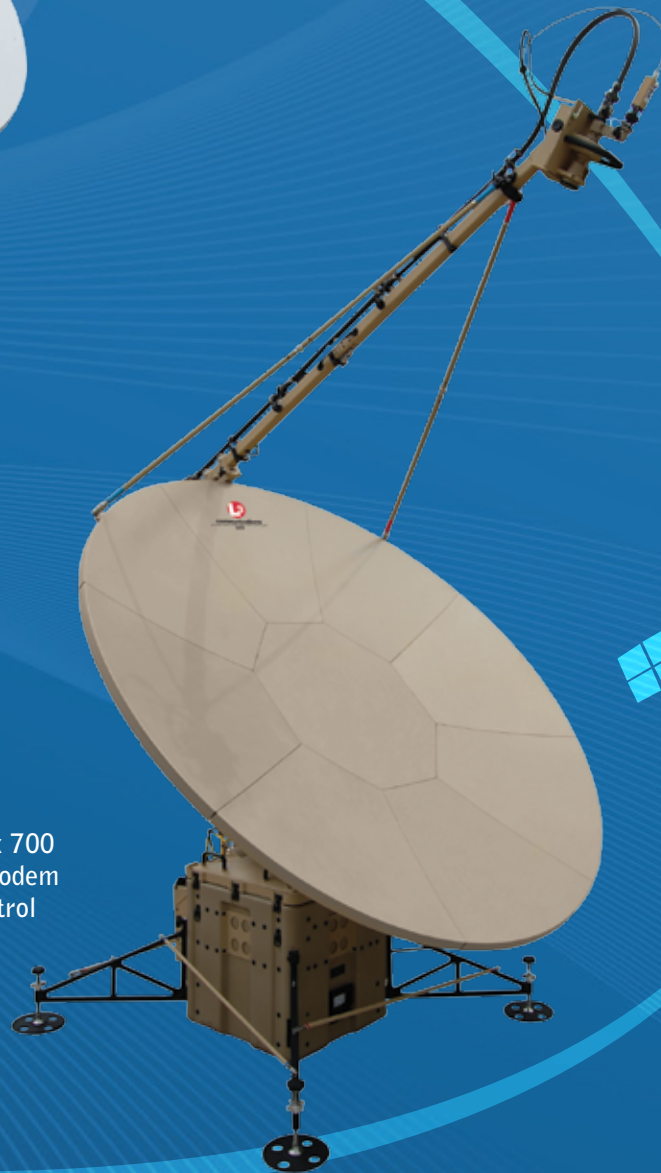
- One button auto-acquisition
- Embedded iDirect iNFINITI® iConnex 700 or iDirect Evolution® iConnex e800 modem
- ViewSAT™ terminal monitor and control software package



Hawkey™ III 2.4M System

7 cases Each case < 175 lbs. Ku/X/C

- One button auto-acquisition
- Embedded iDirect iNFINITI® iConnex 700 or iDirect Evolution® iConnex e800 modem
- ViewSAT™ terminal monitor and control software package



Hawkeye™ III Specifications

AC Power	90-132 and 180-264 VAC Auto-ranging 47 – 440 Hz
Operational Temperature	-32° to +50° C
Storage Temperature	-40° 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)
Reflector	Segmented Carbon Fiber
Az/EI/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	< ± 0.1° 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	Embedded iDirect iNFINITI® iConnex 700 or iDirect Evolution® iConnex e800 modem. (L-Band Interface for external modem)
Tracking	Optional Beacon Receiver and software.

Frequency Bands and Availability:

Band	Receive (GHz)	Transmit (GHz)	Feed	1.6M	2.0M	2.4M
C	3.625 - 4.20	5.85 – 6.425	Cir or Lin	N	Y	Y
X	7.25 - 7.75	7.90 – 8.40	Cir	Y	Y	Y
Ku	10.95 - 12.75	13.75 – 14.50	Lin	Y	Y	Y
Ka	20.2 - 21.2	30.0 – 31.0	Cir	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
1.6M	-	20.2	23.7	25.9	-	55.5	60.0	63.0
2.0M	17.0	21.8	25.4	27.5	55.5	57.6	62.5	65.0
2.4M	19.5	22.7	26.5	-	56.8	59.1	63.3	-

Note 1: G/T at mid-band frequency and 20 degrees elevation.

Note 2: EIRP assumes standard 40W BUC on C/X/Ku and 20W on Ka at mid-band frequency.

Note 3: For ARSTRAT certified X-band systems, EIRP may vary.



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