

HAWKEYE™ 4

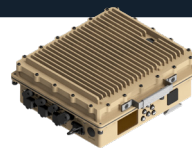
2.35 Meter Tri-Band VSAT

ANTENNA	
Aperture	2.35m parabolic
Optics	Center fed
Acquisition	Auto-acquire
Elevation	+5° to +90°
Azimuth	±200°
Multi-Orbit Capable	Yes

RF PERFORMANCE			
RF BAND	X	Ku	Ka
Transmit (GHz)	7.90-8.40	13.75-14.50	29.00-31.00
Receive (GHz)	7.25-7.75	10.95-12.75	19.20-21.20
Polarization	Circular	Linear	Circular
G/T	20.2 dB/K	24.3 dB/K	25.0 dB/K
EIRP [Standard Power]	57.0 dBW	61.5 dBW	65.9 dBW
EIRP [High Power]	66.0 dBW	71.0 dBW	73.0 dBW

MODEM INTEGRATION	
Supported Modems	iDirect 950mp (Evolution and Velocity) ViaSat CBM-400 (Linkway and EBEM) L3Harris MPM-2500 (NCW and NCW-R) External modem
Future Modems	Comtech 5650 C2 iDirect 450mp

COMMON CONTROLLER	
Internal High Stability OCXO	Included
Beacon Receiver	Included
GATEKEEPER (optional)	Remote ViewSAT-e web-browser GUI and local color LCD and keypad
WiFi® (optional)	802.11a/b/g/n (20 Mbps device to modem throughput)



Common Controller and Modem Module

INTERFACE	
LAN Ports	3x Gigabit RJ-45
GPS	(Internal) GPS Receiver/antenna (Optional external) NMEA 0183
Receive Monitor	L-band receive monitor port
External Modem	L-band interfaces
User Interface	Remote ViewSAT-e web-browser GUI and local color LCD and keypad



The Hawkeye 4 is the next generation of the widely-fielded L3Harris Hawkeye family, lighter in weight with enhanced modularity. The Hawkeye 4 VSAT features a carbon fiber 2.35m segmented antenna, supporting high-speed data and voice for internet, VPN and video transmission.

The state-of-the-art pedestal system offers advanced auto-acquisition capabilities, as well as X, Ku and Ka bands. This easily transportable solution supports quick in-field modem changes and easy upgrades to new modem technologies and multi-orbit capabilities.

The Hawkeye 4 also features the industry-leading ViewSAT-e™ web-browser GUI and optional GATEKEEPER™ interference excision technology.

POWER		
	Standard Power	High Power
Operating Voltage	120-240 VAC (50/60Hz)	120-240 VAC (50/60Hz)
X-Band RF Power (W)	80 (saturated) 44.7 (PLIN)	400 (saturated) 200 (PLIN)
Ku-Band RF Power (W)	55 (saturated) 34.6 (PLIN)	400 (saturated) 200 (PLIN)
Ka-Band RF Power (W)	25.1 (saturated) 15.8 (PLIN)	200 (saturated) 126 (PLIN)
UPS	Uninterruptible power failover	

ENVIRONMENTAL	
Vibration	MIL-STD-810H, Method 514.8, Category 5, and 7-11 (transit); truck/trailer/tracked environment shall use the loose cargo test procedures (packed for transit)
Humidity	MIL-STD-810H, Method 507.6, Procedure I and II – induced (packed for transit and deployed configuration)
Salt/Fog	MIL-STD-810H, Method 509.7 (packed for transit and deployed configuration)
Sand and Dust	MIL-STD-810H, Method 510.7, Procedure I and II (packed for transit and deployed configuration)
Shock	MIL-STD-810H, Method 516.8, Procedure II and IV, logistics transit drop (packed for transit)
Rain	MIL-STD-810H, Method 506.6, Procedure I (packed for transit and deployed configuration)
High Temperature	MIL-STD-810H, Method 501.7, Procedure I (packed for transit) and II (deployed configuration)
Low Temperature	MIL-STD-810H, Method 502.7, Procedure I (packed for transit) and II (deployed configuration)
Wind	30 MPH deployed and unanchored 45 MPH deployed and anchored 80 MPH stowed and anchored
Solar Radiation	MIL-STD-810H, Method 505.7, Procedure I, Cycle A1 (deployed configuration)
Low Pressure (Altitude)	MIL-STD-810H, Method 500.6, Procedure I (packed for transit) and II (deployed configuration)
Water Resistance	MIL-STD-810H, Method 512.6, Procedure 1 (packed for transit)

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