

KU 28 INCH SATCOM ANTENNA

High-performance Ku-band SATCOM solution for airborne platforms

The L3Harris Ku SATCOM Antenna provides a reliable and efficient full-duplex Ku-band terminal with a modem-agnostic L-band interface. Due to its compact size, airborne-friendly weight and RF tracking capability, the antenna can easily be integrated onto airborne platforms such as medium-altitude long-endurance (MALE) unmanned aircraft.

PRODUCT DESCRIPTION

L3Harris SATCOM Airborne products share a legacy of proven, reliable performance and have been flying on Gray Eagle, Predator, Global Hawk and U2 for decades. The Ku 28" SATCOM Antenna shares a common technological foundation with other products in the L3Harris SATCOM On-the-Move (SOTM) family but also offers several enhancements and more functionality.

The L3Harris Ku SATCOM Antenna provides world-class tracking of GEO and MEO satellites by utilizing a precision servo system, built-in beacon receiver and inertial measurement unit (IMU), onboard antenna-control unit (ACU), and an Ethernet/ARINC-429 interface to the platform's inertial navigation system (INS) or embedded GPS/INS (EGI).



Decades of Proven Performance Delivering Uninterrupted SATCOM Connectivity When Your Mission Depends on It

KEY FEATURES

- > Best-in-class >70% antenna efficiency
- > Reliable and lightweight design
- > Highly interoperable with a broad array of industry-standard modems
- > Modular design allows for easy upgrade-ability to Ku/Ka dual-band operation
- > Onboard antenna controller, solid-state power amplifier (SSPA), frequency converters, and RF filtering
- > Rugged and precise design
- > Common interfaces and protocols including L-band, Ethernet, ARINC-429, and SNMP v3

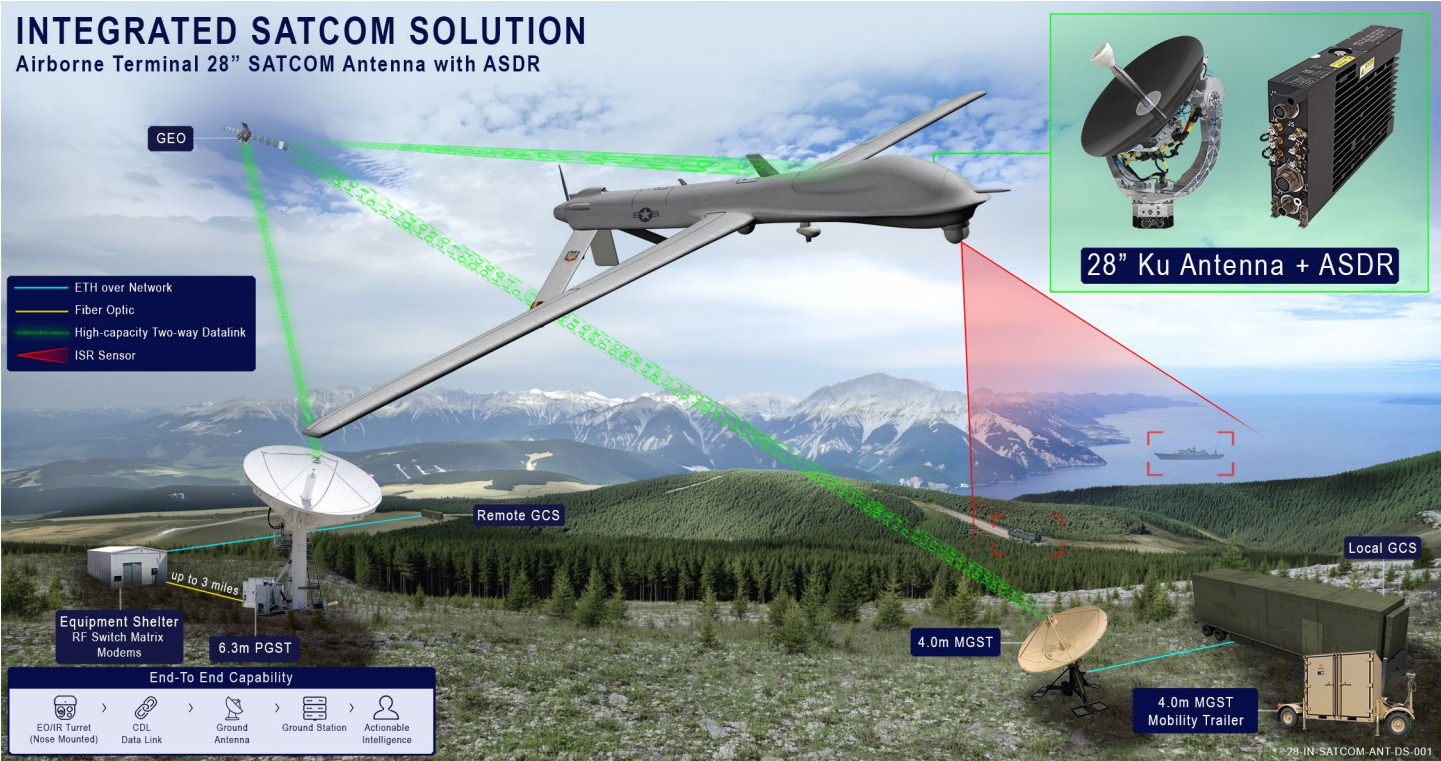
APPLICATION

- > ISR missions (Intelligence, Surveillance, Reconnaissance)
- > Command & Control (C2)
- > Real-time data transmission

SPECIFICATIONS

PHYSICAL CHARACTERISTICS	
SWaP	
Size	30.5" (77.5 cm) DIA x 32.25" (81.9 cm) H
Weight	< 65 lb (29.5 kg)
Supply Voltage	28 VDC aircraft power
Power	536 W typical, 741 W max
Environmental	
Temperature	-55°C to 71°C
Altitude	Fully functional up to 25,000 ft (7,620 m) Non-operating: 35,000 ft (10,668 m)
EMI and Shock Hardened	MIL-STD-461F
Rapid Decompression, Humidity, Rain, Fungus, Salt Fog, Sand and Dust, Aircraft Dynamics, Vibration, Transit Drop, Explosive Atmosphere	MIL-STD-810G

PERFORMANCE CHARACTERISTICS	
RF PERFORMANCE	
Receive: Ku-Band	10.95-12.75 GHz
Transmit: Ku-Band	13.75-14.50 GHz
IF Freq Range: L-Band	950-1750 MHz
Transmit Linear EIR	55.9 dBW at 14.13 GHz
Receive G/T	14.8 dBi/K at 11.95 GHz
Polarization Sense	Rotating Linear (Tx and Rx cross-polarized)
Rx Axial Ratio	>38 dB



GCS - Ground Control Station
GEO - Geostationary Satellite
MGST - Mobile Ground SATCOM Terminal
PGST - Permanent Ground SATCOM Terminal

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