

Features:

- Quad Band (L, S, C, Ku) Frequency Coverage 1.625 – 15.35 GHz
- 36" Diameter Reflector
- Full Duplex
- Prime Focus Configuration
- Lightweight Pedestal Assembly
- MIL-STD 810F Compliant
- UDP/IP Command and Control Interface
- Tilt Compass Module (Optional)
- GPS Antenna (Optional)
- Omnidirectional Antenna (Optional)
- Radome (Optional)
- Power Supply (Optional)

The tactical Ground Datalink Antenna (GDA) was designed for quick deployment in harsh environments, and can be deployed in less than 5 minutes with no hand tools required. A standard 36 inch lightweight composite parabolic reflector provides high antenna gain.

The system Antenna Control Unit (ACU), Servo Amplifiers and Power Supplies are self-contained in the pedestal base. Operator interfaces for command and control are provided through an Ethernet UDP/IP port and a serial control interface is optional. The GDA-36QB features mounting provisions for Radio Frequency Equipment (RFE) and modem directly behind the reflector. This provides optimum RF performance and



eliminates the need for rotary joints. Extra channels on the slip ring provide command and control pathways. The optional Tilt Compass Module (TCM) allows the antenna to automatically compensate for sloping terrain with up to 5° slope in any direction and also find magnetic north for the install location.



Model **GDA-36QB**

Specifications*

KEY PERFORMANCE VALUES

RF/Electrical Parameters	L-Band	S-Band	C-Band	Ku-Band
Frequency Range	1.625 - 1.850 GHz	2.20 - 2.50 GHz	4.4 – 5.85 GHz	14.4 – 15.35 GHz
Gain				
Assumes 1 dB Cable Loss to RFE	15 - 21 dB	21 – 22.5 dB	27 – 28 dB	37.5 – 38 dB
Beamwidth	14 – 11°	12 – 8°	6 – 4°	1.7°
Polarization	Linear			Circular
Aperture Size	3 ft. diameter			
Software Interface				
Ethernet Data Protocol	CPI HD-30T ICD 1494004 (UGDT)			
Mechanical Parameters				
Environmental Qualifications	MIL-810 F Method 5xx			
Velocity	>20°/second			
Acceleration	>20°/second ²			
Pointing Accuracy	>0.2°			
Options				
Dual Channel Rotary Joint	For configurations with RFE below elevation axis			
GPS	Latitude, longitude and altitude determination			
OMNI	For close and overhead links			
IMU/AHRS	Provides auto-leveling and true north determination			
Radome	For entire antenna system			
Transit Cases	2 cases for transportation			
Environmental Parameters				
Temperature	Operating	-40°C to +55°C +1120 w/m ² solar (with warm-up)		
	Storage/Transit	-40°C to +70°C +1120 w/m ² solar		
Wind Loading	Operational to 40 MPH			
Humidity	100% RH per AR-70-38			
Altitude	Operating	Below Sea Level to 10,500 ft. MSL		
	Non-Operating	≤ 40,000 ft. MSL		
Rain	Up to 8" / Hour			
Snow Load	10 lbs./ft. ² returnable to operation in 15 min.			

*Specifications subject to change

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