Gilat DataPath

Product Brochure

DataPath 1.3m

High Performance Portability, LEO/MEO/GEO

Overview

Gilat DataPath offers a comprehensive range of portable satellite terminals designed to meet the demanding requirements of defense and government sectors. These terminals offer high-speed connectivity and are designed for ease of transport and operational simplicity. The company's portable terminals are renowned for their robust performance and rugged design, making them ideal for mission-critical operations in challenging environments.

Gilat DataPath's portable terminals are engineered to withstand harsh conditions such as wind, rain, dust, and extreme temperatures, meeting the rigorous MIL-STD-810G standard while maintaining a compact and sleek design. This durability ensures consistent and reliable communications in diverse operational scenarios, from remote field operations to disaster response situations.

DataPath 1.3m

The DataPath 1.3m X/Y is a high performance full motion antenna designed to track satellites in LEO, MEO and GEO orbits. The 1.3m packs into 3 cases plus an RF/Integration case and can be assembled in 20 minutes or less. The high performance servo system is configured to automatically determine an accurate heading and track satellites using TLE or an integral beacon receiver. Multiple tracking algorithms are available. The X/Y pedestal provides ±90 degrees of travel in both axes for full overhead pass with high speed retrace capability.

Multiple feed configurations can be provided including L, S, X, Ku, and Ka bands. Amplifier integration and packaging options are available.

Features

- Portable / No tools required for assembly
- Full motion X-Y pedestal for overhead tracking
- High speed retrace >15 deg/sec
- Integrated high performance servo control system with precision tracking
- Integrated L-band beacon receiver with optional spectrum analyzer
- Precision carbon fiber reflector, no special tools / bolt-together design
- Multi-band capable with interchangeable feeds

Specifications

Technical Specifications	
Antenna Size	1.3m Carbon Fiber
Certifications	WGS, mPower, XTAR, Inmarsat GX (all pending)
Compliance	FCC, Eutelsat, Intelsat
Configuration	Transit case based
Frequency Bands	X, Ku, Commercial/Military Ka
M&C	MaxView®
Modems	4 for Ku and Ka, 1 for X
Temperature	Operating: -30 deg C to 55 deg C Storage: -40 deg C to 71 deg C
Wind Performance	30 MPH gusting to 45 MPH (with anchoring)
Weight	265 lbs.
Power	1 Phase, 120-240 VAC, 50/60 Hz
Slew Speed	15°/second
Tracking	TLE, Memory, Orbit

Radio Frequency (RF)			
RF Parameter	X-Band (Multi Carrier)	Ku-Band	Ka-Band
Downlink Frequency (GHz)	7.25 – 7.75	10.7 – 12.75	17.7 – 21.2
Uplink Frequency (GHz)	7.9 – 8.4	13.75 – 14.50	29.0 – 31.0*
Number of Feed Ports	2	2	2
Polarization	Circular	Linear	Circular
EIRP (dBW) Linear**	57.0 (PLin)	63.3 (P1dB)	67.3 (PLin)
G/T (dB/K) @10deg Elevation	17.6	21.1	22.7

*Additional Commercial Ka available.

**Amplifier size: 50W for X and Ka and 100W for Ku-band.

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