

## 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  $\pm 90$  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

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

## Radio Frequency (RF)

RF Parameter	X-Band (Multi Carrier)	Ku-Band	Ka-Band
<b>Downlink Frequency (GHz)</b>	7.25 - 7.75	10.7 - 12.75	17.7 - 21.2
<b>Uplink Frequency (GHz)</b>	7.9 - 8.4	13.75 - 14.50	29.0 - 31.0*
<b>Number of Feed Ports</b>	2	2	2
<b>Polarization</b>	Circular	Linear	Circular
<b>EIRP (dBW) Linear**</b>	52.5 (PLin)	62.3 (PLin)	63.2 (PLin)
<b>G/T (dB/K) @10deg Elevation</b>	17.6	21.1	22.7

\*Additional Commercial Ka available.

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



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