

## Product Brochure

# DataPath 2.6m

## 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 2.6m

The DataPath 2.6m is designed for LEO/MEO/GEO applications with tracking and high-performance portability in a lightweight package. The 2.6m features a 9-piece segmented carbon fiber composite reflector and a high performance servo control system with an assembly time under 30 minutes. Rugged transport cases compliant to two-man lift requirements are provided to safely transport the terminal until deployment.

To provide ultimate mission flexibility, Gilat DataPath has uniquely designed this terminal to have a modular architecture. The pedestal drive system can be easily changed from a cost-effective manual positioner to a motorized azimuth-over-elevation pedestal or to a motorized X-Y pedestal. The flexibility also extends to the RF subsystem where band changes among X-band, Ku-band, and Ka-band and at various power levels can be fitted to the terminal. The RF equipment is mounted so that different band kits can be installed quickly to support different missions.

The motorized azimuth-over-elevation pedestal is a rugged cost-affordable pedestal for use with GEO satellite applications or even equatorial MEO applications for locations  $\geq 5^\circ$  above or below the equator. The X-Y pedestal is an optional pedestal that is easily installed to provide full-motion control and positioning for LEO, MEO, and GEO applications. This pedestal provides high-speed (up to  $12^\circ/\text{sec}$ ) and high duty-cycle performance for the most demanding full-motion applications.

### Features

- Portable packaging, ships in transit cases, sets up in 30 minutes
- Full motion X-Y pedestal with  $\pm 90$  degrees of travel in both axes
- High speed capable - up to  $12^\circ/\text{second}$  each axis
- Integrated high performance servo control system with precision tracking
- Optional integrated L-band beacon receiver with spectrum analyzer
- Precision carbon fiber reflector, no special tools / bolt-together, designed for Ka performance
- Options
  - Motorized or manual elevation over azimuth mount drives
  - Higher speed drives
  - Multi-carrier X-band
  - Integrated or separately cased modems (e.g. Aquarius Pro DS, Aquarius-e, Capricorn, GLT, other 3rd party modems)



## Specifications

### Technical Specifications

<b>Antenna Size</b>	2.6m 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>	Up to 8 per polarization
<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*
<b>Weight</b>	<700 lbs.
<b>Power</b>	1 Phase, 120–240 VAC, 50/60 Hz
<b>Slew Speed</b>	12°/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>	4	4	4
<b>Polarization</b>	Circular	Linear	Circular
<b>EIRP (dBW) Linear***</b>	60.1	64	70.5
<b>G/T (dB/K) @10deg Elevation</b>	22.2	26	28

\* Requires anchoring.

\*\* Additional Commercial Ka available.

\*\*\* Based on 100W SSPB. Alternative EIRP power levels are available.

Gilat DataPath's design emphasizes field readiness: ruggedization for harsh environments, fast setup and teardown, maintainability in theater, and flexibility to operate on different frequency bands and networks where required. This enables operators to match the terminal to the mission while retaining the confidence that each system is proven, supported, and scalable in operational use.

As tactical communications evolve toward dynamic, multi-band/multi-orbit operations, terminal infrastructure must evolve accordingly. Gilat DataPath's tactical terminal portfolio combines combat-proven reliability with modern modular design, enabling defense and government users to deploy faster, operate more flexibly, and maintain communications superiority across any environment and mission profile.