

TrakPuck Smart Antenna

This extremely compact GPS smart antenna, compatible with many off the shelf navigation software products, provides real-time position fix via your computer or PDA.



General Description:

When integrated with your computer or an OEM mobile location unit (MLU), the TrakPuck GPS smart antenna provides you with real-time position fix data through either a **USB port (P/N 10001736G)** or standard **Serial port (P/N 10001737G)**. The TrakPuck is a low cost/high quality GPS solution for AVL, Fleet Management, and Marine Navigation. The combined GPS receiver/antenna is packaged in a low profile, waterproof enclosure with magnetic mount and includes EMI filtering on the power and data leads.

With P/N 10001736G, power is supplied directly through the USB port whereas P/N 10001737G derives power through a standard PS2 connector plugged into a spare serial mouse or keyboard port on the user's computer. A **cigarette lighter adaptor cable** is included for those applications where a spare PS2 port is not available. The cable allows P/N 10001737G to operate on voltages from 7-35VDC.

Environmental Conditions	
Temperature	Operating: -30 to +75°C Storage: -40 to +85°C
Humidity	95% non-condensing
Power	0.65 watts max
EMI Filter	Rejects power line interference

Interface Capability	
Protocol	NMEA 0183
User Selectable Output Strings	GGA, GLL, GSA, GSV, RMC, VTG, ZDA
Data Cable	5 Meter, Multiconductor shielded cable with USB or DB-9F connector and integral strain relief

PHYSICAL CONSTRUCTION/PERFORMANCE	
Dimensions	56mm (Diameter)x 22mm (Height)
Weight	85 grams(+/- 5%)
Frequency	1575.42 MHz, C/A code
Enclosure	High impact, corrosion-proof polycarbonate resin
Construction	Ultrasonic welded, fully waterproof
Mounting	Magnetic mount
Antenna Element	High-reliability ceramic patch
Architecture	12 parallel channels
Acquisition Time	18 sec. Typical (warm start)
Position Accuracy	15m RMS (DOP<3)
Velocity Accuracy	0.1 Knot RMS steady state
Update Rate	Max 1 second continuous
Dynamics	Up to 50m/s ² (tracking sustained)

Ordering Information	
Part Number	Description
10001736G	TrakPuck w/USB Connector
10001737G	TrakPuck w/DB-9F Connector

For configuration assistance, order placement and technical support call:



SYNERGY SYSTEMS, LLC
Time proven products and support

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