8171D-HR



# 8171D-HR Low-Profile Tracking Antenna with SkyLink™ High Rejection GNSS Technology

The 8171D-HR-DH-W High Rejection GPS/GLONASS Antenna is a dual-band antenna covering both GPS L1 and GLONASS L1 frequencies. PCTEL's proprietary SkyLink™ filtering design allows wideband coverage while achieving superior out-of-band rejection. This antenna comes in an all-plastic, non-corrosive low-profile package for vehicle mounting or fixed installations. This antenna is ideal for any global GPS/GLONASS tracking or time synchronization application that requires an externally mounted antenna.



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#### **Features**

- GPS L1 & GLONASS L1 frequencies
- Proprietary SkyLink™ filtering design allows wideband coverage while achieving superior out-of-band rejection for all GNSS frequencies 26dB LNA Gain
- Low noise figure < 2.0dB
- · IP67, low-profile design\*\*

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Model	Connector	Mount	
8171D-HR	TNC Female	¾" thru-hole or bracket mount*	

## **ELECTRICAL SPECIFICATIONS - GNSS ANTENNA**

Frequency Band	LNA Gain	Element Gain	Polarization	Out of Band Rejection
1565-1610 MHz	@ 3.0 VDC: 26 dB (typical)	2 dBic @ 90°	Right hand circular	f0 = 1586  MHz $f0 \pm 50 \text{ MHz}$ : ≥ 60 dBc $f0 \pm 60 \text{ MHz}$ : ≥ 70 dBc

### **ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued**

<b>Current Draw</b>	DC Voltage	Noise Figure	Nominal Impedance	
< 25 mA	2.8-6.0 V (operating)	< 2.0 dB	50 ohms	
(typical)	≤ 12.0 V (survivability)	(typical)		

#### **MECHANICAL SPECIFICATIONS**

Dimensions	Weight	Housing Material	Shock	Vibration
2.36" Dia x 0.83" H (60 x 21 mm)	0.1 lbs (50 g)	Black, Lexan EXL9330	Vertical axis 50G, other axes 30G	3 axis, sweep = 15 min 10 – 200 Hz log sweep: 3G

#### **ENVIRONMENTAL SPECIFICATIONS**

Temperature Range	Ingress Protection
-40°C to +85°C operating	IP67**

 $\label{eq:compatible} {\it *Order MMK1925} \ for compatible mounting.}$   ${\it **When installed according to manufacturer's installation instructions.}$