

Model 7131 GPS Antenna

- High Gain, Low Noise
- Low Current Consumption
- Fully Weatherized/Waterproof



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DESCRIPTION:

The GPS Antennas - Model 7131 is an external, high performance Global Positioning System (GPS) antenna for use with the ALERT2 family of Data Transmitters. The low profile permanent mount GPS antennas provide 28 dB gain and superior out-of-band rejection performance and is the optimum choice for GPS tracking and timing applications with high radio frequency fields. The GPS Antennas feature a precision tuned custom ceramic patch element for maximum signal reception, 15KV ESD circuit protection, a 3 stage low noise amplifier (LNA) circuit and dual high rejection surface acoustic wave (SAW) filters. This enables the GPS Antenna to provide a reliable and clear GPS signal while minimizing loss-of-lock, even when conditions are less than ideal.

The GPS Antennas deliver high-gain, low-noise performance in a rugged and compact package. It features a wide operation temperature, wide operating voltage, and low current consumption.

SPECIFICATIONS:

Antenna Type	White Radome
Center Frequency	1575.42 MHz \pm 10 MHz
Nominal Gain	28dB
Noise Figure	3.1 dB (typical)
Polarization	Right hand circular
ESD Circuit Protection	15 KV
Operating Voltage	2.7 to 5.5 VDC
Current Draw	8 mA @ 3.3 VDC
Mounting	3/4 inch thru-hole or bracket mount
Antenna Connector	TNC jack
Housing	Lexan
Operating Temperature	-40° to 185° F (-40° to 85° C)
Dimensions	2.36x0.83 inch (6x2.1 cm) (Dia.xH)
Weight	1.77 oz (50 g)
Shipping Weight	1 lbs (0.5 kg)
IP Rating	IP67

02-7131-00(A)

Environmental Monitoring Solutions

WEB SITE: www.highsierraelectronics.com E-MAIL: sales@highsierraelectronics.com

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ORDERING GUIDE:

Model 7131-00. GPS Antenna; (28dB Gain) White

OPTIONS/SPARE PARTS:

Model 7133-00. GPS/Cellular Antenna Mounting bracket. Fits 1 inch to 1.5 inch diameter masts

Model 7201-00. GPS Antenna Lightning Protection

Model 7135-01. GPS Cable set 20 ft (6.1 m) (Male TNC to Male SMA, RG58), antenna, mounting bracket w/lightning protection

Model 7135-02. GPS Cable 20 ft (6.1 m) (Male TNC to Male SMA, RG58), antenna, mounting bracket w/o lightning protection

Model 7135-11. GPS Cable set 8 ft (2.4 m) (Male TNC to Male SMA, RG58), antenna, mounting bracket w/lightning protection

Model 7135-12. GPS Cable 5 ft (1.5 m) (Male TNC to Male SMA, RG58), antenna, mounting bracket w/o lightning protection

See www.highsierraelectronics.com for more specification and ordering information.

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