Innovative **Technology**
for a **Connected** World

Asset Tracking External Antenna

Cell+GPS|World

WORLD BAND GSM/GPS ANTENNA IDEAL WHEN RECEPTION IS A MUST

The World antenna is a high-performance, low-profile cellular and GPS antenna. The antenna supports AMPS, GSM, PCS and DCS bands and is ground plane independent. The antenna is suited for applications inside of a vehicle or can be used externally. It is weather resistant with an IP-67 Ingress Protection rating.

Laird Technologies is a leading supplier of mobile antenna solutions for automotive, asset tracking and consumer electronics industries. Products include cellular antennas (AMPS, GSM/DCS/PCS, UMTS), GPS antennas, entertainment antennas (AM/FM, DAB, DVB-T, satellite radio, TV), mobile communication antennas (Bluetooth®, DSRC, RKE, TPMS, WLAN), satellite communication antennas and battery packs.

Leveraging our experience in M2M wireless modules, Laird Technologies also designs smart antennas integrating functionalities such as cellular, WLAN and Bluetooth modems, GPS receivers and vehicle networking. All of these capabilities can be further integrated into M2M devices that add control electronics and firmware, providing the latest evolution in telematics systems.

FEATURES ✓RoHS

- The cost-effective solution transmits voice and data while measuring only 105 x 65 x 25 mm
- Sleek, durable housing mounts on either a ground plane or no ground plane surface
- Compact, high-performing design allows for hidden in-cab installations
- Vastly outperforms competitive solutions in the market
- Multiple mounting solutions
- Weather resistant, IP-67 rating

BENEFITS

- Low total-cost implementation
- High-performance RF reception
- Easy installation
- Small package size
- Meets enhanced environmental specifications
- Ground plane independent

APPLICATIONS

- General automotive aftermarket
- Fleet logistics, tracking, and diagnostics
- Theft protection
- Vehicle and asset recovery
- Navigation systems
- Infotainment systems
- On-board computing

global solutions: local support™

Americas: +810.695.9810
Europe: +44.1628.858.940
Asia: +852.2268.6567

www.lairdtech.com

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External World

	AMPS / GSM	DCS / PCS	GPS
ANTENNA SPECIFICATION			
Frequency Range	824-896 MHz or 880-960 MHz	1710-1880 MHz or 1850-1990 MHz	1575.42 MHz
Peak Gain	0 dBi	2.0 dBi	4.5 dBic @ Boresight
Polarization	Linear	Linear	RHCP
Impedance	50 Ω	50 Ω	50 Ω
Output VSWR (Min. Performance)	≤ 2.5:1	≤ 2.5:1	≤ 2:1
LNA SPECIFICATION			
Gain (Max)	—	—	30 dB
Noise Figure	—	—	≤ 2.0 dB
Supply Voltage	—	—	3.0 ± 0.3V
Current (typical)	—	—	20 mA
Input P1dB	—	—	≥ -27 dBm
Output VSWR	—	—	≤ 2:1

MECHANICAL SPECIFICATION	
Dimension	105 x 65 x 25 mm
Radome Material	Black ASA + PC (Cycoloy)
Connector	TNC for cellular, RP-TNC for GPS
Cable Length	4 meters
Cable Type	RG-174
Mounting Method	Adhesive, Hook & Loop
ENVIRONMENTAL SPECIFICATION	
Operating Temperature	-40°C to +85°C
Humidity	Operation 95% RH at 65°C
Ingress Protection	IP-67
Drop Test / Shock	50 g shocks 10x3 axis / 1 meter drop 6 axis
Vibration	10-1000 Hz vibration 1 hour 3 axis
ORDERING INFORMATION	
Part Number	637117
Customization available w/MOQ	Cable type, length, connector type, mounting method

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