

Asset Tracking Internal Antenna

Cellular|Blade



QUAD-BAND ANTENNA IS IDEAL FOR STEALTH APPLICATIONS

The Blade antenna provides versatile options for stealth applications and includes AMPS, GSM, DCS, and PCS cellular radio frequencies. The antenna provides multiple application options with high gain performance and measures only 125.5 x 34 x 5.1mm, allowing covert installation into vehicle interiors. The antenna can be paired with the Internal GPS antenna, part #637108, to support combined cellular plus GPS function.

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, WiFi), satellite communication antennas and battery packs.

Leveraging our experience in M2M wireless modules, Laird Technologies also designs smart antennas integrating functionalities such as cellular, WiFi 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 to provide the latest evolution in telematics systems.

FEATURES

- Slim, flexible design for easy integration into vehicles
- Compact, ideally suited for stealth applications
- Maximum passive gain within form factor

BENEFITS

- Low total-cost implementation
- Easy installation
- Easy concealment
- Small package size
- Meets enhanced environmental specifications

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



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

Asset Tracking Internal Antenna Cellular|Blade

Blade

AMPS

GSM

DCS

PCS

ANTENNA SPECIFICATION

| Frequency Range | 824-894 MHz | 880-960 MHz | 1710-1880 MHz | 1850-1990 MHz |
|--------------------------------|-------------|-------------|---------------|---------------|
| Peak Gain | 2.3 dBi | 2.3 dBi | 2.1 dBi | 3.1 dBi |
| Polarization | Linear | Linear | Linear | Linear |
| Impedance | 50 Ω | 50 Ω | 50 Ω | 50 Ω |
| Output VSWR (Min. Performance) | $\leq 2:1$ | $\leq 2:1$ | $\leq 2:1$ | $\leq 2:1$ |

MECHANICAL SPECIFICATION

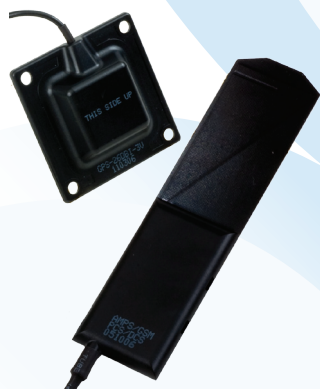
| Dimension | 125.5 x 34 x 5.1mm |
|-----------------|--------------------|
| Radome Material | Cycoloy |
| Connector | SMC |
| Cable Length | 4000 mm |
| Cable Type | RG-174 Coaxial |
| Mounting Method | Velcro, Adhesive |

ENVIRONMENTAL SPECIFICATION

| Operating Temperature | -40° to +85°C |
|-----------------------|---|
| Humidity | Operation 95% RH at 65°C |
| Ingress Protection | IP-50 |
| 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 | 637109 |
|-------------------------------|--|
| Customization available w/MOQ | Cable type, length, connector type, mounting style |



Order with 637108 for a combination
GPS/Cellular solution. Part #637110.

TEL-DS-Internal-Blade 1210

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2010 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.