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[Laird - Embedded Wireless Solutions
637113](#)

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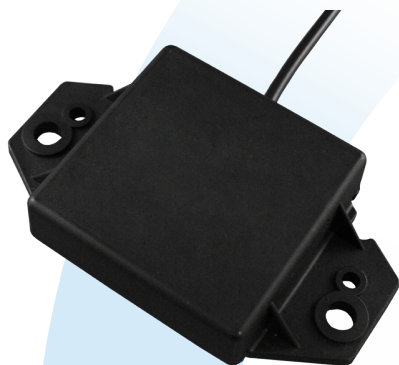
sales@integrated-circuit.com



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

Asset Tracking Internal Antenna

2.4 GHz|LAN



COMPACT ANTENNA IS IDEAL FOR SHORT RANGE COMMUNICATIONS

The LAN antenna for vehicular applications addresses the needs of short-range RF applications. The antenna is designed to work in the harsh environment of the vehicle and in concealed locations, including under the dashboard.

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

- Low-profile design installs within dashboards or interior trim
- 4 dBi gain maximizes coverage area
- 85 MHz bandwidth allows antenna to be used in multiple applications

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
- Infotainment systems
- On-board computing

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

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Internal LAN

ANTENNA SPECIFICATION

Frequency Range	2400-2485 MHz
Peak Gain	4.0 dBic @ Boresight
Polarization	RHCP
Impedance	50 Ω
Output VSWR (Min. Performance)	$\leq 2:1$

MECHANICAL SPECIFICATION

Dimension	45 x 78 x 15 mm
Radome Material	Valox dr51
Connector	SMA
Cable Length	4000 mm
Cable Type	RG-174
Mounting Method	Detent, 4 holes provided

ENVIRONMENTAL SPECIFICATION

Operating Temperature	-40°C 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	637113
Customization available w/MOQ	Cable type, length, connector type

TEL-DS-Internal 2.4 LAN 1210

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