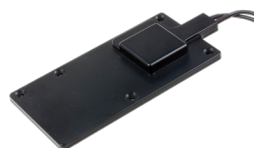


Asset Tracking Product Line

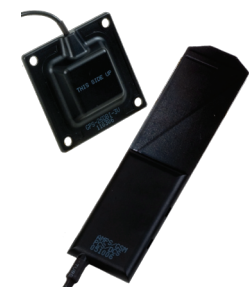
Internal Antennas

SMALL, HIGH PERFORMANCE ANTENNAS, EASY TO INSTALL & HIDE

Laird Technologies' family of internal asset tracking antennas will meet a wide array of reception needs from global cellular bands to GPS and LAN frequencies. These products provide maximum performance in a small package.



APPLICATION	GAIN		BLADE	WEDGE		GPS	LAN
Antenna Specification	Cellular	GPS		Cellular	GPS		
Frequency Range	AMPS : 824- 894 MHz GSM : 880 - 960 MHz DCS : 1710 - 1880 MHz PCS : 1850 - 1990 MHz	1574.42 - 1576.42 MHz	AMPS : 824- 894 MHz GSM : 880 - 960 MHz DCS : 1710 - 1880 MHz PCS : 1850 - 1990 MHz	AMPS : 824- 894 MHz GSM : 880 - 960 MHz DCS : 1710 - 1880 MHz PCS : 1850 - 1990 MHz UMTS : 1920 - 2170 MHz	1574.42 - 1576.42 MHz	1574.42 - 1576.42 MHz	2400-2485 MHz
Peak Gain	3.0 dBi	3.5 dBic @ Boresight	AMPS/GSM 2.3 dBi DCS 2.1 dBi PCS 3.1 dBi	AMPS/GSM 3.5 dBi GSM 0 dBi DCS 3.5 dBi PCS 3.0 dBi UMTS 2.5 dBi	3.0 dBic @ Boresight	4.5 dBic @ Boresight	4.0 dBic @ Boresight
Polarization	Linear	RHCP	Linear	Linear	RHCP	RHCP	RHCP
Impedence	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
Output VSWR	≤ 2:1	≤ 2:1	≤ 2:1	UMTS < 2.5:1 Others ≤ 2:1	≤ 2:1	≤ 2:1	≤ 2:1
LNA Specification							
Gain (typical)		28 dB			28 dB	28 dB	
Noise Figure (@23°C)		≤1.5 dB			≤1.5 dB	≤1.5 dB	
Supply Voltage		3.3 ± 0.3V or 5.0 ± 0.5V			3.3 ± 0.3V or 5.0 ± 0.5V	3.3 ± 0.3V	
Current (typical)		15 mA			17 mA	12 mA	
Input P1dB		≥-27dBm			≥-27dBm	≥-27dBm	
Output VSWR		≤ 2:1			≤ 2:1	≤ 2:1	
Mechanical / Environmental							
Dimension	130 x 65.8 x 12.2 mm		125.5 x 34 x 5.1 mm	138 X 32 X 11.2 mm		63.5 x 63.5 x 13 mm	45 x 78 x 15 mm
Radome Material	Cyclopy		Cyclopy	Cyclopy		Cyclopy	Valox dr51
Connector(s)	TNC (Cell), RP-TNC (GPS)		Fakra plug (Violet)	SMC Plug (Cell), SMA Jack (GPS)		SMB Fakra Plug (Blue)	SSMB
Cable Length	1829 mm		4000 mm	1524 mm		4000 mm	3048 mm
Cable Type	RG-316 Coaxial		RG-174 Coaxial	RG-174 Coaxial		RG-174 Coaxial	RG-174 Coaxial
Mounting Method	Hook&Loop, Adhesive		Hook&Loop, Adhesive	Hook&Loop, Adhesive		Hook&Loop, Adhesive	Detent, 4 holes provided
Operating Temperature	-40°C to +80°C		-40°C to +80°C	-40°C to +80°C		-40°C to +85°C	-40°C to +80°C
Ingress Protection	IP-50		IP-50	IP-50		IP-50	IP-50
Ordering Information							
Part Number	63709		63702	63747		63703	63752



GPS and Blade can be combined for
combination GPS/Cellular solution.



Alternative package style for
the Wedge antenna

For more information contact
wirelessinfo@lairdtech.com

Customization of cable type, length, connector and mounting style possible with MOQ