



local support_™

GPS/Telematics Antennas



Laird Technologies is the world-leader in the design and supply of customized performance-critical products for wireless and other advanced electronic applications.

Laird Technologies partners with its customers to help find solutions for applications in various industries such as:

Aerospace

Automotive Electronics

Computers

Consumer Electronics

Data Communications

Medical Equipment

Military

Network Equipment

Telecommunications

Laird Technologies offers its customers unique product solutions, dedication to research and development and a seamless network of manufacturing and customer support facilities located all across the globe.

global solutions : local support...

Laird Technologies GPS/Telematics antennas provide low profile, high performance and cost effective mobile communication solutions

Laird Technologies GPS/Telematics antennas are low profile, high performance and cost-effective solutions for your mobile communications needs. Available in combinations that cover all primary cellular frequencies plus GPS and Satellite Radio, Laird Technologies GPS/Telematic antennas feature small form factors allowing easy installation virtually anywhere inside or outside a vehicle. Phantom AVL/GPS antennas are currently utilized by ocean bound freighters monitoring temperature and data while withstanding extreme temperatures, salt water and vibration. With integrated research, tooling, molding, assembly and accelerated life testing facilities around the world, Laird Technologies' engineers will quickly and efficiently create solutions to a multitude of wireless challenges.

| Model | Description | Center Freq | Gain | Overall Height | Radio/GPS Connector | Coax Type |
|--|--|---|--|---|---|--|
| Dual-Ban | d GPS AVL | | | | | |
| GPSD4503P GPSD7463P GPSD8063P GPSD8063EP GPSD8213P GPSD8903P GPSD9023P | Standard AVL w/Phantom* Low Profile AVL w/Phantom* Low Profile AVL w/Phantom* As above w/ext. 1" mounting nut Low Profile AVL w/Phantom* Low Profile AVL w/Phantom* Low Profile AVL w/Phantom* | 450 - 470 MHz 746 - 786 MHz 806 - 866 MHz 806 - 866 MHz 821 - 896 MHz 890 - 960 MHz 902 - 928 MHz | 3 dB-MEG 3 dB-MEG 3 dB-MEG 3 dB-MEG 3 dB-MEG 3 dB-MEG 3 dB-MEG | 3.5" 1.25" 1.25" 1.25" 1.25" 1.25" | TNC/SMB TNC/SMB TNC/SMB TNC/SMB TNC/SMB TNC/SMB TNC/SMB | RG58 RG58 RG58 RG58 RG58 RG58 |
| Tri-Band | Low Profile GPS AVL | | | | | |
| GPST821/18503F | Cell/PCS/GPS Low Profile* | 821-896 MHz/ 1850-1990 MHz | 3 dB-MEG | 1.25" | TNC/SMB | RG174 |
| KIT1171-120 | Cell/PCS/GPS Low Profile* Adhesive mount | 821-896 MHz/ 1850-1990 MHz | 3 dB-MEG | 1.25" | SMA/SMB | RG174 |

Other connector options available





Low profile multi-band GPS GPST821/18503P

- Patented field diversity Phantom[®] technology ensures uninterrupted voice and data transmissions in urban canyons and rural drop off areas
- 27 dB active GPS patch with high sensitivity for accurate timing and locating
- Low profile design prevents tampering and is visually pleasing



Adhesive mount option available on Low Profile GPS Antennas

More Info: 800.323.3757 www.lairdtech.com

Survivor[™] Dual Band GPS antennas

 Highly durable molded housing design survives the harshest of environments and applications - traditional whip with spring options available.

NEW

- 26dB active GPS patch antenna provides high performance and sensitivity for accurate locating and timing
- Multiple applications from heavy equipment to luxury automobiles

| Model | Description | Frequency | Gain | Overall Height | Connector Type | Coax Type |
|----------------------------|---|--------------------------------|----------|-------------------|----------------------|--------------|
| Dual-Band | d GPS/Land Based Bar An | itenna | | | | |
| GPSDB150P | Low Profile Phantom Wideband VHF/GPS | 137 - 150 MHz | 3 dB-MEG | 2.2" | N-Male | RG58 |
| Survivor™ | 1 | | | | | |
| GPSDS1370P GPSDS1370PLP | Survivor - VHF plus GPS* Survivor - Low Profile VHF plus GPS* | 137 - 150 MHz 137 - 150 MHz | , | 21.75" 7.25"" | Optional Optional | 14' 14' |
| GPSDS1370G | Survivor - VHF/GPS w/ Magnetic Base* | | , | 7.25"" | Optional | 14' |
| GPSDS7603P GPSDS8060P | Survivor - 700 MHz + 3 db Gain* Survivor - 800 MHz + Unity Gain* | 760 - 870 MHz 806 - 866 MHz | | 14.285" 6" | Optional Optional | 14' 14' |
| GPSDS8063P | Survivor - 800 MHz + 3 db Gain* | 806 - 866 MHz | | | Optional | 14' |
| GPSDS8065P | Survivor - 800 MHz + 5 db Gain* | 806 - 866 MHz | 5 dB | 26.25" | Optional | 14′ |







GPSDS1370PLP

GPS Antenna features

- Monitor location with GPS models available in NMO, magnetic, and trunk mount options
- Multiple applications heavy equipment to luxury automobiles
- Heavy duty spring available on some Survivor models
- GPSDS1370P model is ideal for ORBCOMM® applications



www.lairdtech.com More Info: 800.323.3757

| Model | Description | Frequency | Gain | Connector Type | GPS Connector | Coax Length |
|-----------------|-------------------------------------|---|---------|-------------------|------------------|----------------|
| Internal Me | ercury™ Tri-Band | | | | | |
| GPST3I824/18503 | Tri-Band Internal Mercury 3 Volt | AMPS: 824-896 MHz PCS: 1850-1990 MHz GPS: 1575.42 MHz | 3.0 dBi | SMA | SMA | 17' RG-174 |
| GPST5I824/18503 | Tri-Band Internal Mercury 5 Volt | Same as above | 3.0 dBi | SMA | SMA | 17' RG-174 |
| GPST51880/17103 | Tri-Band Internal Mercury 5 Volt | AMPS: 880-960 MHz DCS: 1710-1880 MHz GPS: 1575.42 MHz | 3.0 dBi | SMA | SMA | 17' RG-174 |
| | | | | | | |

Also available in GSM, DCS and UMTS frequency configurations - other connector and cable options also available.

| Hexband | d Multiblade Interi | nal GPS Antenna |
|---------|--------------------------|--|
| 63708 | MultiBlade GPS 3 Volt | AMPS: 824-896 MHz 3.0 dBi SMA SMA 17' RG-174 GSM: 880-960 MHz |
| | 3 7011 | DCS: 1710-1880 MHz |
| | | PCS: 1850-1990 MHz UMTS: 1920-2170 MHz GPS: 1575.42 MHz |
| | | |

| External Me | ercury™ Tri-Band | | | | | |
|-----------------|--|---|---------|-----|-----|------------|
| GPST3E824/18503 | Tri-Band External Mercury 3 Volt | AMPS: 824-896 MHz PCS: 1850-1990 MHz GPS: 1575.42 MHz | 3.5 dBi | SMA | SMA | 17′ RG-174 |
| GPST5E824/18503 | Tri-Band External Mercury 5 Volt | Same as above | 3.5 dBi | SMA | SMA | 17' RG-174 |
| 62107 | Tri-Band External Mercury Through-Hole-Mount - 3 Volt | AMPS: 824-896 MHz PCS: 1850-1990 MHz GPS: 1575.42 MHz | 3.5 dBi | SMA | SMA | 17' RG-174 |
| 62108 | Tri-Band External Mercury Through-Hole-Mount - 5 Volt | Same as above | 3.5 dBi | SMA | SMA | 17' RG-174 |

Other connector and cable options available

Other connector and cable options also available



Internal Mercury[™] Tri-band GPS antennas

- Keeps track of your fleet while providing multiple radio frequency wireless communications.
- Available in AMPS, PCS, DCS, GSM and UMTS tri-band configurations
- Low-profile stealth design installs on dashboards or rear decks
- Measures only 5"L x 2.5"W x .5"H

NEW

Hexband Multiblade Internal GPS Antenna

- Same performance as original Internal Mercury PLUS 6 Band flexibility with GPS
- Features more compact housing only 5.4"L x 1.25"W x .5"H



External Mercury[™] Tri-band GPS antenna:

- Low-profile weatherproof design is an excellent solution for trucks, trailers and tall vehicles
- Transmits voice and data while measuring only 5.625" x 5.125" x .875"
- Sleek durable housing mounts on a ground plane or no ground plane surface



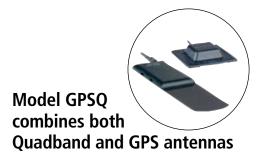


More Info: 800.323.3757 www.lairdtech.com

Multi-Band MicroBlade™

- Dual and Quad band models available
- Antennas measure only 4.94" x 1.34" x .25"





Standard NMO Mount GPS antennas GPSU15M

- Small Size 11/2" tall x 2 5/8" diameter
- 3 or 5 Volt bias
- Gold Plated Pushpin Contact



Trunk Mount GPS and Add On Bracket TM8GPS GPSNMOAO



| Model | Description | Freq | uency | | Gain | Connector Type | Coax Length |
|-----------------------|--|---------|-----------------------------------|----------|---------|----------------------|----------------|
| Dual and | Quad-Band Microbl | ade | ™with and | l wi | thout G | PS | |
| MAF90001 | MicroBlade Dual Band | A B 4 F | PS: 824-896 MHz | _ | 2.3 dBi | SMA | 3m RG-174 |
| WAF90001 | MICTOBIAGE Dual Band | | 75: 824-896 MHz 1: 880-960 MHz | 2 | 2.3 dBi | SIVIA | 3III KU-174 |
| MAF90002 | MicroBlade Dual Band | | : 1710-1880 MH | z | 2.1 dBi | SMA | 3m RG-174 |
| | | PCS: | 1850-1990 MH | Z | 3.1 dBi | | |
| MAF90004 | MicroBlade Dual Band | As a | bove | | | Straight MCX Plug | 9″ |
| Microblade1 | MicroBlade QuadBand | AMF | S: 824-896 MHz | <u>z</u> | 2.3 dBi | SMC | 5′ |
| (CAF94837) | | GSN | 1: 880-960 MHz | | 2.3 dBi | | |
| | | | : 1710-1880 MH | _ | 2.1 dBi | | |
| | | PCS: | 1850-1990 MH | Z | 3.1 dBi | | |
| Microblade1W | MicroBlade Antenna Waterproof | Sam | e as above | | | SMC | 5′ |
| GPSIM15 (CAF94827) | Internal GPS Antenna - 3 volt | GPS | : 1575.42 MHz | | 2.5 dBi | SMA | 5′ RG-174 |
| , | n a 5 volt version | | | | | | |
| GPSO | MicroBlade1 and | Sam | e as above | | | SMC | 5′ |
| (CAF94864) | GPSIM15 antennas | | | | | | |
| Model | Description | | Center Freq | Gain | Overall | Connector | Conv |
| Wiouei | Description | | Center Freq | Gaiii | Height | Туре | Туре |
| NMO Mo | untable | | | | | | |
| CDCHAEM | NIMO CDC 2 EV-lt Di | | 1575 42 MIL- | 2C -li |) 1 F# | NMO | NI A |
| GPSUU15M GPSUW15M | NMO GPS - 3 or 5 Volt Bias NMO GPS - 3 or 5 Volt Bias - V | /h:+a | 1575.42 MHz 1575.42 MHz | | | NMO NMO | NA NA |
| GPSUWISW | NINO GPS - 3 OF 5 VOIL BIAS - V | vnite | 13/3.42 IVIHZ | 26 U | 3 1.3 | INIVIO | NA |
| Trunk Mo | ount GPS | | | | | | |
| TM8GPS | Trunk Mount GPS | | 1575.42 MHz | | .75″ | | |
| TMB8GPS | Black Trunk Mount GPS | | 1575.42 MHz | | .75" | | |
| IMIDOGES | Black Ifulik Moulit GF3 | | 1373.42 1/1112 | | ./3 | | |
| GPS Add | On Bracket | | | | | | |
| GPSNMOAO | Bright Stainless Bracket with C | iPς | 1575.42 MHz | | .75″ | | 17' - RG174 |
| GPSBNMOAO | Black Stainless Bracket with G | | 1575.42 MHz | | .75" | | 17' - RG174 |



| mouer | Description . | center rieq | Guiii | Height | Туре | Туре |
|------------------|------------------------------------|-------------|---------|--------|----------|---------------|
| Standard | AVL | | | | | |
| GPS1575P | Low Profile AVL * | 1575.42 MHz | 26 dB | 1.25" | TNC-Male | RG174 |
| *Add .625" ove | rall height for all P mount models | | | | | |
| Micro GP | S Magnetic and Adhesiv | e Base | | | | |
| GPS15MGBNC | Micro GPS Antenna | 1575.42 MHz | | .43" | BNC | 15' RG174/U |
| GPS15MGSMA | Micro GPS Antenna | 1575.42 MHz | | .43" | SMA | 15' RG174/U |
| GPS15MGSMB | Micro GPS Antenna | 1575.42 MHz | | .43" | SMB | 15' RG174/U |
| GPS15MGTNC | Micro GPS Antenna | 1575.42 MHz | | .43" | TNC | 15' RG174/U |
| GPS Glass | s Mount Antenna | | | | | |
| GPS15GLSM | GPS Glass Mount Antenna | 1575.42 MHz | 25 dB | 1.25" | SMA | 15' - RG316 |
| GPS Ante | nna + Receiver | | | | | |
| 63706 | GPS Antenna + Receiver | 1575.42 MHz | 2.0 dBi | 1.25" | PS2 | Mult. options |
| 63742 | GPS Antenna + Receiver | 1575.42 MHz | 2.0 dBi | 1.25" | USB | Mult. options |
| GPS Rece | iver Module | | | | | |
| 63745 | GPS Receiver Module | 1575.42 MHz | 2.0 dBi | .3" | USB &PS2 | Mult. options |

Center Freq

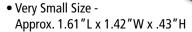
Gain

NEW

Model

Description

Micro GPS GPS15MGSMB



- Flexible 3 and 5 volt operation
- Bottom or side exit
- Water proof
- Antenna provided with both magnetic and adhesive base options



Overall Connector Coax



Low Profile GPS antenna GPSU1575P

- Low profile 1.5" tall
- P mount



NEW

GPS Antenna + Receiver

 Low-profile weatherproof design for interior or exterior mounting



- Magnet, adhesive and velcro mounting options
- Features SiRFstarIIITM
 chip with exceptional
 sensitivity and accuracy
- USB or PS2 Connector



NEW

GPS Receiver Module



- 20 channel GPS receiver
- 200,000 effective correlators for fast TTFF
- Built-in WAAS/EGNOS Demodulator
- Support NMEA-0183 v2.2 data protocol and SiRF binary code

NEW

GPS Glass Mount Antenna SPS15GLSM

- Installs behind rearview mirror for covert installation
- Antenna tuned for interior glass mount

More Info: 800.323.3757 www.lairdtech.com

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Laird Technologies is the world-leader in the design and supply of customized performance-critical products for wireless and other advanced electronic applications. Laird Technologies partners with its customers to help find solutions for applications in various industries such as Aerospace, Automotive Electronics, Computer, Consumer Electronics, Data Communications, Medical Equipment, Military, Network Equipment, and Telecommunications industries.



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