



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.

www.lairdtech.com

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	Standard AVL w/Phantom* Low Profile AVL w/Phantom* Low Profile AVL w/Phantom*	450 - 470 MHz 746 - 786 MHz	3 dB-MEG	3.5" 1.25" 1.25"	TNC/SMB TNC/SMB	RG58 RG58
GPSD8063P GPSD8063EP GPSD8213P	As above w/ext. 1" mounting nut Low Profile AVL w/Phantom*	806 - 866 MHz 806 - 866 MHz 821 - 896 MHz	3 dB-MEG 3 dB-MEG 3 dB-MEG	1.25" 1.25"	TNC/SMB TNC/SMB	RG58 RG58 RG58
GPSD8903P GPSD9023P	Low Profile AVL w/Phantom* Low Profile AVL w/Phantom*	890 - 960 MHz 902 - 928 MHz	3 dB-MEG 3 dB-MEG	1.25" 1.25"	TNC/SMB TNC/SMB	RG58 RG58
Tri-Band	Low Profile GPS AVL					
GPST821/18503F	P 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 Ar	ntenna				
GPSDB150P	Low Profile Phantom Wideband VHF/GPS	137 - 150 MHz	3 dB-MEG	2.2"	N-Male	RG58
Survivor™						
GPSDS1370P	Survivor - VHF plus GPS*	137 - 150 MHz	Unity	21.75"	Optional	14′
GPSDS1370PLP	Survivor - Low Profile VHF plus GPS*	137 - 150 MHz	Unity	7.25""	Optional	14′
GPSDS1370G	Survivor - VHF/GPS w/ Magnetic Base*	*137 - 150 MHz	Unity	7.25""	Optional	14′
GPSDS7603P	Survivor - 700 MHz + 3 db Gain*	760 - 870 MHz	3 dB	14.285"	Optional	14'
GPSDS8060P	Survivor - 800 MHz + Unity Gain*	806 - 866 MHz	Unity	6"	Optional	14'
GPSDS8063P	Survivor - 800 MHz + 3 db Gain*	806 - 866 MHz	3 dB	14.285"	Optional	14'
GPSDS8065P	Survivor - 800 MHz + 5 db Gain*	806 - 866 MHz	5 dB	26.25"	Optional	14'



*Add .625" overall height for all P mount models





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



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Model	Description	Frequency	Gain	Connector Type	GPS Connector	Coax Length
Internal Me	rcury™ 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 GS	M, DCS and UMTS frequency	configurations - other co	nnector	and cable op	otions also a	vailable.
Hexband M	ultiblade Internal G	SPS Antenna				
63708	MultiBlade GPS 3 Volt	AMPS: 824-896 MHz GSM: 880-960 MHz DCS: 1710-1880 MHz PCS: 1850-1990 MHz UMTS: 1920-2170 MHz GPS: 1575.42 MHz		SMA	SMA	17' RG-174
Other connector and	d cable options also available					
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	3.5 dBi	SMA	SMA	17' RG-174

Same as above

3.5 dBi SMA

17' RG-174

SMA



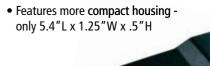
Internal Mercury[™] Tri-band GPS antennas

- 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



Other connector and cable options available

62108

Tri-Band External Mercury

Through-Hole-Mount - 5 Volt



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 Microbla	ade	™with and	l wi	thout G	PS	
MAF90001	MicroBlade Dual Band		PS: 824-896 MHz 1: 880-960 MHz	<u> </u>	2.3 dBi 2.3 dBi	SMA	3m RG-174
MAF90002	MicroBlade Dual Band		: 1710-1880 MH : 1850-1990 MH:		2.1 dBi 3.1 dBi	SMA	3m RG-174
MAF90004	MicroBlade Dual Band	As a	bove			Straight MCX Plug	9″
Microblade1 (CAF94837)	MicroBlade QuadBand	GSM DCS:	PS: 824-896 MHz I: 880-960 MHz : 1710-1880 MH : 1850-1990 MH:	Z	2.3 dBi2.3 dBi2.1 dBi3.1 dBi	SMC	5′
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
Also available i	n a 5 volt version						
GPSQ (CAF94864)	MicroBlade1 and GPSIM15 antennas	Sam	e as above			SMC	5′
Model	Description		Center Freq	Gain	Overall Height	Connector Type	Coax Type
NMO Mo	untable						
GPSU15M	NMO GPS - 3 or 5 Volt Bias		1575.42 MHz	26 dl	3 1.5"	NMO	NA
GPSUW15M	NMO GPS - 3 or 5 Volt Bias - W	/hite	1575.42 MHz	26 dI	3 1.5"	NMO	NA
Trunk Mount GPS							
TM8GPS TMB8GPS	Trunk Mount GPS Black Trunk Mount GPS		1575.42 MHz 1575.42 MHz		.75″ .75″		
GPS Add	On Bracket						
GPSNMOAO	Bright Stainless Bracket with G	PS	1575.42 MHz		.75″		17' - RG174

1575.42 MHz

.75"

17' - RG174

More Info: 800.323.3757



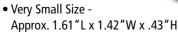
GPSBNMOAO Black Stainless Bracket with GPS

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Model	Description	Center Freq	Gain	Overall Height	Connector Type	Coax Type
Standard	AVL					
GPS1575P	Low Profile AVL *	1575.42 MHz	26 dB	1.25"	TNC-Male	RG174
*Add .625" over	all height for all P mount models					
Micro GPS	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	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 Recei	ver Module					
63745	GPS Receiver Module	1575.42 MHz	2.0 dBi	.3"	USB &PS2	Mult. options

NEW

Micro GPS GPS15MGSMB



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







GPSU1575P • Low profile - 1.5" tall • P mount

Low Profile GPS antenna



NEW

GPS Antenna + Receiver

• Low-profile weatherproof design for interior or exterior mounting



- Magnet, adhesive and velcro mounting options
- Features SiRFstarIII™ 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

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