

# LARSEN GPS SOLUTIONS FOR MOBILE APPLICATIONS

## Tri-Band GPS Antennas

Larsen is proud to present our GPS tri-band antenna product line. The small footprints and low profiles of our tri-band antennas make for more flexible mounting options. Our GPS development competency leverages tri-band technology that enables continuous GPS signal reception when the co-located communications antennas are transmitting. All tri-band GPS antennas can work on either 3 VDC or 5 VDC.



### ROOF MOUNT TRI-BAND GPS

The GPSCWCP is a roof-mounted AMPS-GSM/DCS-PCS-UMTS/GPS antenna designed to be mounted in a ground plane (Ø12" minimum) environment. Mounting is a direct feed 3/4" threaded through-hole mount accommodating up to .06" (1.5 mm) of roof curvature.

- Frequency: 824-960 MHz (AMPS-GSM) / 1710-2170 MHz (DCS-PCS-UMTS) / 1574.4-1576.4 MHz (GPS)
- Gain: 2 dBi ± 2 dB (AMPS-GSM) / 2 dBi ± 2 dB (DCS-PCS-UMTS) / 28 dB (LNA)
- Dimensions: 3.9" Long X 2.24" Wide X 3.21" Deep
- Voltage: 3 VDC or 5 VDC
- Coax: 16'1" RG-174
- Connectors: MCX, SMA, SMB, FAKRA, BNC, FME, TNC, Type-N available upon request (TNC and SMA are standard)



### INTERIOR GLASS MOUNT TRI-BAND GPS

The GPSCPGM is an interior-mounted AMPS-GSM/DCS-PCS-UMTS/GPS antenna designed for window or glass mounting with double-sided tape.

- Frequency: 824-960 MHz (AMPS-GSM) / 1710-2170 MHz (DCS-PCS-UMTS) / 1574.4-1576.4 MHz (GPS)
- Gain: 2 dBi ± 2 dB (AMPS-GSM) / 2 dBi ± 2 dB (DCS-PCS-UMTS) / 28 dB (LNA)
- Dimensions: 2.9" Long X 1.8" Wide X 0.8" Deep
- Voltage: 3 VDC or 5 VDC
- Coax: 16'1" RG-174
- Connectors: MCX, SMA, SMB, FAKRA, BNC, FME, TNC, Type-N available upon request (TNC and SMA are standard)



### EXTERIOR MOUNT TRI-BAND GPS

The GPSCP is an exterior-mounted AMPS-GSM/DCS-PCS-UMTS/GPS antenna designed to be mounted in a non-ground plane environment. Mounting is a direct feed 3/4" threaded through-hole mount accommodating up to .06" (1.5 mm) of roof curvature. This antenna is available in both black and white versions.

- Frequency: 824-960 MHz (AMPS-GSM) / 1710-2170 MHz (DCS-PCS-UMTS) / 1574.4-1576.4 MHz (GPS)
- Gain: 2 dBi ± 2 dB (AMPS-GSM) / 2 dBi ± 2 dB (DCS-PCS-UMTS) / 28 dB (LNA)
- Dimensions: 7.6" Long X 3.3" Wide X 1.2" Deep
- Voltage: 3 VDC or 5 VDC
- Coax: 16'1" RG-174
- Connectors: MCX, SMA, SMB, FAKRA, BNC, FME, TNC, Type-N available upon request (TNC and SMA are standard)

# LARSEN GPS SOLUTIONS FOR MOBILE APPLICATIONS

Larsen is proud to present a complete line of GPS antennas designed for asset tracking and AVL applications. These antennas are intended for use in trucking, commercial fleet, utility, public safety, search and rescue, GIS and survey and mapping markets. Larsen offers a complete line of antennas providing exceptional performance with high-gain GPS modules. The small footprints and low profiles make for more flexible mounting options. Larsen makes a GPS antenna for virtually any application.

## GPS COMBI WHIP

The GPSCW antenna provides superior cellular performance in combination with a GPS module for an outstanding dual band antenna. The direct feed antenna is mounted with a threaded stud directly to the vehicle surface (3/4" hole).

- 5 dBic gain antenna with 26 dB gain LNA for exceptional performance.
- Superior cellular performance with a 5 dBi enclosed coil whip at 800 and 900 MHz.
- Additional mounting feature of double-sided tape on the bottom of the antenna provides for a more secure installation.



## All GPS only antennas:

- 1575.4 MHz
- 5 dBic gain antenna with 26 dB gain LNA for exceptional performance
- Active GPS modules
- Right hand circular polarization
- Housings made from special resin polymer plastic for chemical and UV resistance
- Connector options: MCX, MMCX, SMB, SMA, BNC, No Conn



GPS NMO Mount - Available in black or white

## GPS NMO Mount (GPSNMO):

- 5 VDC
- Uses standard 3/4" hole NMO mount
- SuperSeal™ gasket for superior weatherproofing
- 3" Diameter base

## GPS Glass Mount (GPSGM):

- 3 VDC
- Installs with double-sided tape
- 1.7" x 1.7" square



GPS Glass Mount

## GPS Direct Mount (GPSDM):

- 5 VDC
- Bolt mounting requiring 3/4" hole. Die-cut double-sided tape on the bottom insures a weatherproof installation
- 2.5" Diameter base



GPS Direct Mount

## GPS Mag Mount (GPS00):

- 5 VDC
- Small mag mount design for temporary installations
- 1.75" Long x 1.5" wide

## GPS Module with Shrink Wrap (GPSM02/GPSM03):

- 3 VDC
- Shrink wrapped active GPS module with 12' of RG-174
- 1" square x 1/3" high



GPS Mag Mount