



**Carrier Phase
GPS antennas
Model GPSL1A-R-12-SMB**

Benefits

Carrier Phase GPS depends on optimal signal reception to achieve best positional accuracy. When satellite tracking is lost total measurement time increases or final positional accuracy is compromised. Enhanced reception capabilities augment the range of missions feasible with GPS by reducing the detrimental effects of tree cover and low satellite elevation.

Technology

The Qedge patch antenna is manufactured of high quality substrate. A high performance Low Noise Amplifier (LNA) and finely adapted elements keep efficiency high and noise low. Rejection of reflected signals (from ground reflections and other multipath sources) is optimised by a combination of the individual polarisation signals in a microstrip circuitry.

Specifications

Model: GPSL1A-R-12-SMB

Environmental

Temperature: -40 to +70 °C
EMC: EN50082-1:1997
Humidity: IEC 68-2-14 Db

Mechanical

Vibration: IEC 60068-2-6
Shock: IEC 60068-2-27
Drop: IEC 68-2-30 Ed

Weight: less than 250 g

Dimensions

Height: 70 mm
Diameter: 166 mm

Enclosure: PC-plastic, grey colour

Antenna element: Slot coupled patch element

Polarisation: Right Hand circular (RHCP)

Contact info

DataGrid Inc. 1022 NW 2nd Gainesville FL 32601 USA

On the web: www.datagrid-international.com or www.qedgeantenna.com
E-mail: info@datagrid-international.com or info@qedgeantenna.com

Amplifier

Power: 3.5 to 15 VDC, 5 mA
Noise factor: less than 1.5 dB
Frequency: 1575.42 MHz, 20 MHz band
Gain: 12 dB

Filter

Type: 3-pole band pass
Band width: 1575 MHz ±10 MHz (3 dB)
Loss: 2.5 dB typical

Connector:

SMB, other connectors available upon request, power supply positive voltage on centre conductor.

Mount:

5/8" other threads upon request

The QEDGE™ Antennae are developed and manufactured by Gutec AB, mail address: Industrigatan 21C, S-234 35 Lomma, Sweden, fax +46 40 416682