

DATASHEET

DCP GNSS ANTENNA

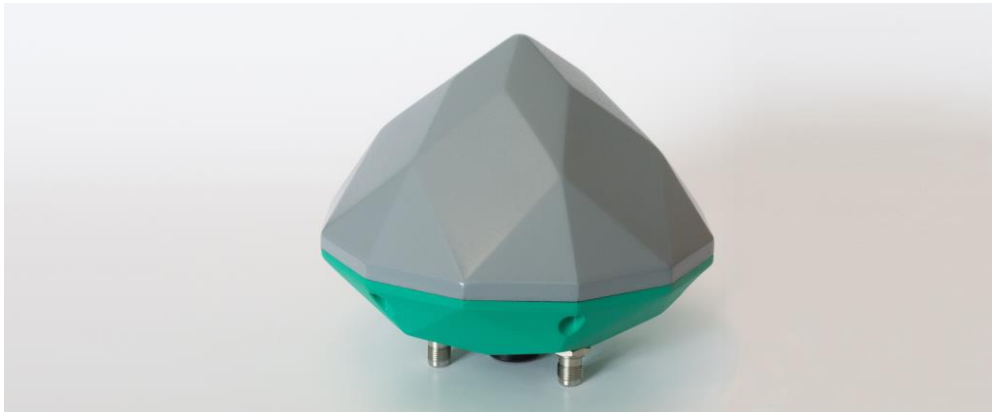


Figure 1.
Prototype

Active Dual Circularly Polarized GNSS Antenna (DCP GNSSA)

The DCP GNSSA is an active antenna for positioning, surveying and navigation that receives both the RHCP and LHCP signals simultaneously and with a high isolation. It covers all GNSS frequencies in L band, shows excellent performance in open-sky environments and clearly detects signals which have been corrupted by diffraction and reflections. The antenna can also be mounted in a customer-specific housing.

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Technical Data

Parameter	Value
Passband	1160–1300 MHz and 1525–1610 MHz
Passive zenith gain	>4 dBic
Gain roll-off zenith to 10° elevation	<10 dB
Gain difference zenith and -45° elevation or below	>20 dB
Axial ratio (10-90° elevation)	<5.6 dB (XPD 10 dB)
Noise figure	<2.2 dB
Active antenna gain (overall)	>38 dBic
Passband ripple	<2dB in each 30 MHz
VSWR output connector	<1.7:1
Supply voltage (provided via RHCP and/or LHCP output)	5V±10%
DC current	2 × 140 mA
Connector type RHCP and LHCP outputs	TNC
Connector type calibration signal input	SMA
Dimensions	170 × 170 × 120 mm
Weight	0.5 kg

Table 1.
Specifications

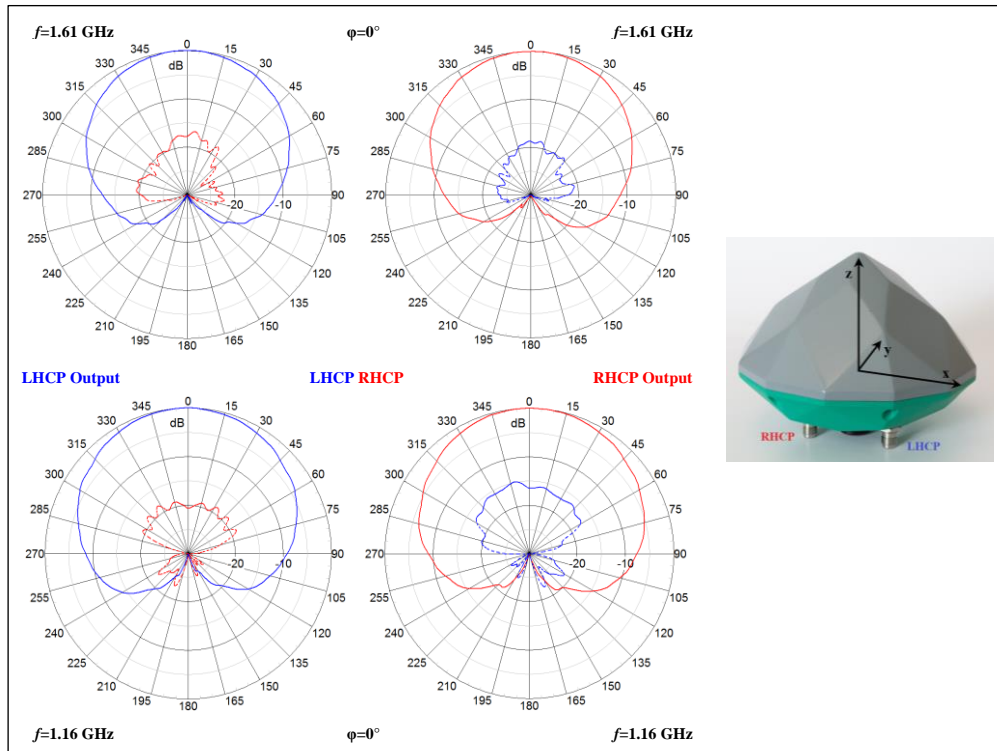


Figure 2.
Measured Radiation Patterns
(Normalized)