



HIRSCHMANN MOBILITY

Cellular/ GNSS
Adhesive Antenna
CGN 7026 LP A
Part Number 920-625-001

Features

- Combination antenna for positioning and data-services
- · Terrestrial based transmission and satellite-based positioning
- Embedded high performance LNA with dual feed ceramic patch antenna and phase shift network for optimized cross polarization discrimination(XPD)
- Mounting by adhesive foam pad on metallic and non metallic ground as well as on glass
- Designed for installation in harsh environment

Some technical optimization with minor effect to the overall performance of this product are still pending. This document will be updated according the finalization of the optimization measures without prior information.

Technical Data

Dimensions	121 mm x 77 mm x 37 mm
Weight	ca. 230 g
Temperature range	-40°C - +85°C
Protection class	IP6k6 (acc. ISO 20653)
Cable type	RG 174

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Technical Data

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Cellular			
Frequency range	Low:	698 - 960 MHz	
	High:	1710 - 2690 MHz	
Services	2G:	GSM 850/900 MHz	
		GSM 1800/1900 MHz	
	3G:	UMTS	
	4G:	LTE-bands (1 - 10; 12 - 20; 23, 25; 26 - 30; 33 - 41; 44)	
Impedance		50 Ohm	
Load capacity	max.	10 W pulsed acc. GSM standard	
VSWR		≤ 2.0	
Gain		O dBi ¹⁾	
Load capacity	max.	10 W pulsed acc. GSM standard	
Diagnostic resistor		10 kOhms	
GNSS			
Frequency range	GPS:	1563 - 1587 MHz (L1)	
	QZSS:	1563 - 1587 MHz (L1)	
	Galileo:	1559 - 1591 MHz (E1)	
	BeiDou:	1559 - 1591 MHz (B1C)	
	GLONASS:	1593 - 1610 MHz (G1)	
Impedance		50 Ohm	
VSWR		≤ 2.0	
Gain		1 dBic ²⁾	
Amplification		27 ±1 dB	
Noise figure (50 Ohm)		≤ 2.2 dB	
Voltage supply		3.0 - 5.5 VDC (remotely fed)	
Current consumption		24 ±1 mA @ 5 V	

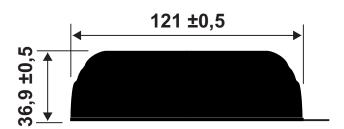
¹⁾ dBi: referenced to an isotropic radiator

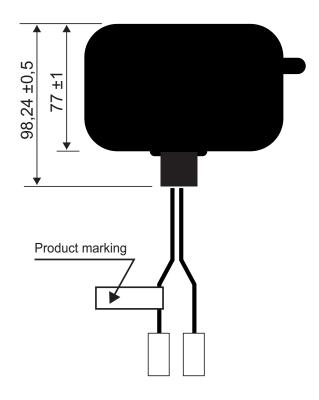
Versions

PN	Description	CELL	GNSS
920-625-001	CGN 7026 LP A	3000 ±40 mm FAKRAf, D bordeaux	3000 ±40 mm FAKRAf, C blue

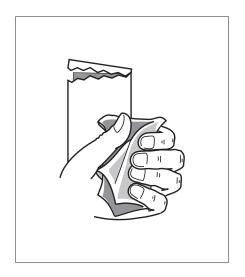
 $^{^{2)}}$ dBic: referenced to an isotropic radiator, circular polarization

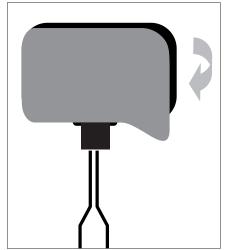
Technical Drawing

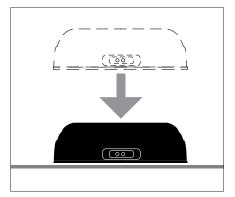




Installation

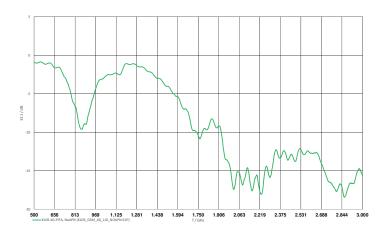






Antenna diagrams

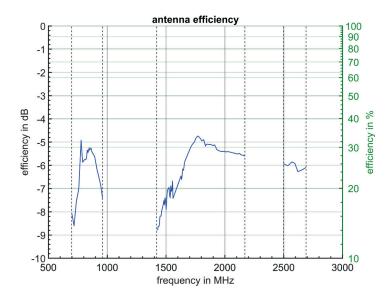
Typ. VSWR (S_{11}) Cellular bands



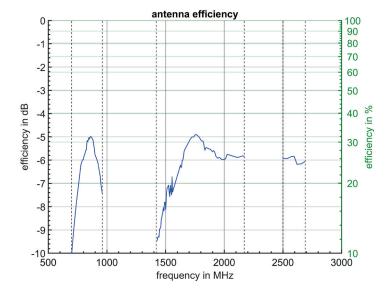
Typ. Gain (S₁₂) GNSS-LNA



Efficiency CELL Conductive Ground plane

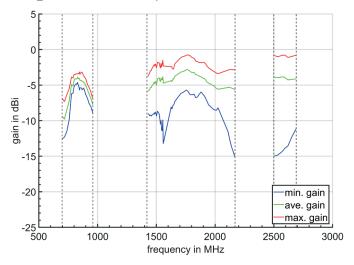


Non Conductive Ground plane



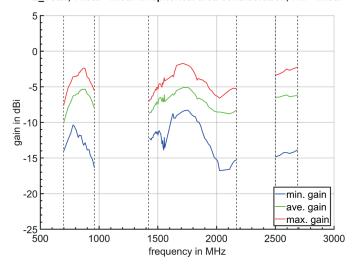
Gain CELL
Conductive Ground plane

partial average antenna gain (Theta=[60.00 - 90.00]°; Phi=[0.00 - 360.00]°) E_Total, Theta - linear w. spherical area consideration, Phi - linear



Non Conductive Ground plane

partial average antenna gain (Theta=[60.00 - 90.00]°; Phi=[0.00 - 360.00]°) E_Total, Theta - linear w. spherical area consideration, Phi - linear



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