

Cellocator GPS & GSM Mushroom Antenna Specification



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Proprietary and Confidential

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POINTER



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1 Introduction

1.1 Overview

This document provides the detailed specifications for the Cellocator GPS and GSM Mushroom Antenna (813-2262H).

1.2 Abbreviations

Abbreviation	Description

1.3 References

All the reference documents listed in the following table can be downloaded from the support section of the Pointer website (www.pointer.com).

#	Reference	Description
1.		
2.		

1.4 Revision History

Version	Date	Description
1.0	11/07/2012	Initial version



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2 Cellocator GPS and GSM Mushroom Antenna Specifications

The specifications in the table below are for outdoor installation purposes.

GPS Receiver Specification		
GPS		
1	Chipset	SiRF GSC3F
2	Frequency	L1 1575.42MHz
3	Code	C.A. Code
4	Channels	20
5	Sensitivity (Acquisition)	It shall show C/No \geq 40 dB-Hz when external power = -130dBm
6	Cold start	42 sec (Signal Strength > 30 dB-HZ)
7	7 Warm start	35 sec (Signal Strength > 30 dB-HZ)
8	Hot start	1 sec (Signal Strength > 30 dB-HZ)
9	Reacquisition	0.1sec typical
10	Position accuracy	10meters at 2D RMS
11	Maximum altitude	18000 m
12	Maximum velocity	514 m/s
13	Trickle power mode	Duty cycle \leq 34% (Variable)
14	Update rate	Continuous operation: 1Hz
Power consumption		
15	Vcc	DC 3.4~5V
16	Current	Acquisition: 80mA (typical) Tracking: 75mA (typical)
17	Power control	Discrete input
18	SRAM backup battery	3.3mAh Li-Ion rechargeable battery. Battery life at full charge is \geq 7 days.
Interface		
19	Cable	Shielded 6 wires 5m cable
20	Connector	CVILUX # CP3520S0010 or CVILUX # CI2206S0000
21	COM Ports	Output signal level are RS232: 9600bps (default), 8 bit data, 1 stop bit and no parity



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Protocols		
22	NMEA-0183 compliant	TX only, Messages: GGA, GLL, GSA, GSV, RMC and VTG
23	Binary	RX/TX Custom
GSM Antenna Specification		
24	Frequency	700 – 2000 MHz
25	VSWR	1:1.6 Max
26	Impedance	50 ohm
27	Gain	0 db typically
28	Cable	5m RG174/U
29	Connector	SMB (fits the compact GSM external connector)
General Specification		
Environment		
30	Operating temperature	-20 ~ +70 C°
31	Storage temperature	-40 ~ +85 C°
32	Humidity	<= 95%
33	RoHS	Compliant
Mechanical		
34	Diameter	105mm
35	Height	15 mm Highest Point
36	Screw Thread	M16 length 50 mm