

Smart Cellular Low Profile Screwable Antenna

Ord.code

951 003-xxx

CELLULAR QUADBAND 2G

- For CELLULAR networks (GSM 850, GSM 900, 1800, 1900)
- M2M application - telemetering, remote maintenance, transportation, ...
- Easy integration and modularity of communication
- Simplifies the system architecture
- Mounting on any surface (e.g. plastics, metal ...)



Technical data

Antenna

Frequency range	AMPS/GSM 850:	824 – 894 MHz
	GSM 900 :	880 – 960 MHz
	GSM 1800:	1710 – 1880 MHz
	GSM 1900:	1850 – 1990 MHz
Impedance	50 Ohm	
VSWR	≤ 2	
Polarization	Linear, vertical	
Gain (linear gain, vertical polarization)	0 dBi *	

Module

Power	Up to 2 Watts	
GPRS	Class 10, CS1-CS4	up to 85.6 kb/s
AT command support	3GPP standards: TS 27.007, 27.005, 27.010 (+ Module specific commands)	
Protocols	Embedded TCP/IP, UDP/IP, HTTP/FTP, SMTP	
Additional features	Cellular Localization	
Current consumption	Power off mode : < 500 µA Idle mode : < 10 mA fully functional GPRS class 10 : < 450 mA	

System

Serial interface	USB	min. 2,0
Power supply	via USB	5 ± 0.5 V Typ. 500mA min. 300 mA

* dBi: referenced to an isotropic radiator * dBic: referenced to an isotropic radiator, circular polarization

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Installation Instructions

CTAS 85 19 LP S

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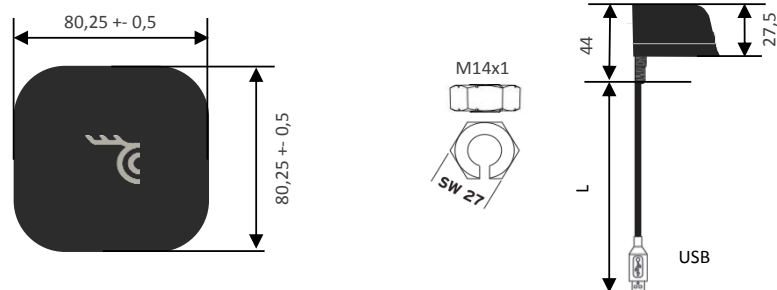
Mechanical

Dimensions	ca. 80 mm x 80 mm x 28 mm
Housing Materials	ASA+PC
Weight	230 g
Operations temperature range	- 40 + 85° C
Storage temperature range	- 40 + 85 °C
Housing protection class	IP6k9k

Versions

951 003 001 CTAS 85 19 LP S USB 1,5	1500 +30mm USB
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Technical drawings



Installation

- Take the necessary electrostatic precautions for a connection of electronic components (Potential ESD < 1 KV)
- Surface must be flat (maximum radius 1mm per meter) , max thickness 10 mm
- No metallic (conductive) surface above the antenna
- Connectors are not waterproof, so area below the antenna must be dry
- Drill a hole (diameter 15 +4/-0,5mm) (clean with isopropyl alcohol or similar)
- Screw the nut on the grounding plate (Torque 5 Nm +0-20%)
- No adjunction of any material (silicones, glue, ...)
- Plug the antenna to an USB standard plug (min 500mA)
- Connect the coaxial cable connector by hand without forcing (Torque 1 +/- 0,15 Nm = hand made)
- Check that the wires respect the appropriate way, not pulled / stressed / bended < 25mm radius / touching aggressive parts

