Technical Data Sheet	Rosenberger
GPS Active Antenna	**GPS-30-N-S**

Main Features

Active GPS antenna for timing and synchronization
Immunity to noise and interference; High Rejection
Built-In Lightning Protection
High reliability in severe environments
Mounting hardware included for both wall and pole installation



Antenna Module

Frequency Range	1565.42 MHz -1585.42 MHz
Antenna gain at zenith	4 dBi
Horizontal beamwidth	360 deg
Vertical beamwidth	105 deg
Polarization	R.H.C.P
Output Impedance	50 Ω

LNA Module

Frequency Range	1574.22 MHz ~1576.62MHz
Gain	26.5±2 dB
Noise Figure	≤ 2.2 dB （Typ）
	≤ 3 dB （Max）
Output Impedance	50 Ω
Output VSWR	≤ 1.5
Input P_{1dB}	⩾ -30 dBm
Out of Band Rejection	⩾ 65 dB , f < 1559 MHz
	⩾ 65 dB , f > 1625 MHz
DC Voltage	5V±1V
Abnormal voltages (non-destruction)	-32V to +4V； +6V to +32V
Operating Current	⩽ 30 mA @ 5V
EMC Compliance	ETSI-EN 301 489-1V1.9.2(2011-09)

System Performance (Antenna + LNA)

Frequency Range	1574.22 MHz - 1576.62 MHz
Gain	30 ± 3 dBi
Output Impedance	50 Ω
VSWR	≤ 1.6

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Environmental Specifications

Ingress Protection	IP67
Operating Temperature	-40℃ to +55℃
Storage Temperature	-40℃ to +70℃
Transport Temperature	-40℃ to +70℃
Relative humidity	5-100%
Application	Outdoor
RoHS 2011/65/EU	Compliant
China RoHS	Compliant

Mechanical Specifications

Connector	N-Female
Radome color	White
Dimension	Φ69 mm × 98.5 mm
Weight (antenna without accessories)	188.2 g
Total Weight (with accessories)	500.3 g
Pole diameter	30 mm – 125 mm
Height with bracket	179 mm

Packing List

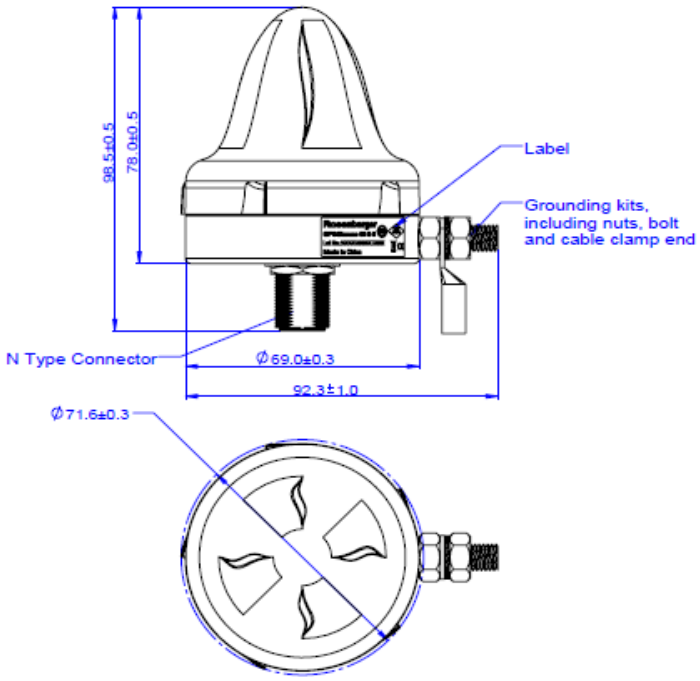
Antenna (with grounding kits)	1pcs
Bracket	1pcs
Mounting screw	4pcs
Hose Clamp	2pcs
Expansion bolt	4pcs
Datasheet	1pcs
Installation Manual	1pcs

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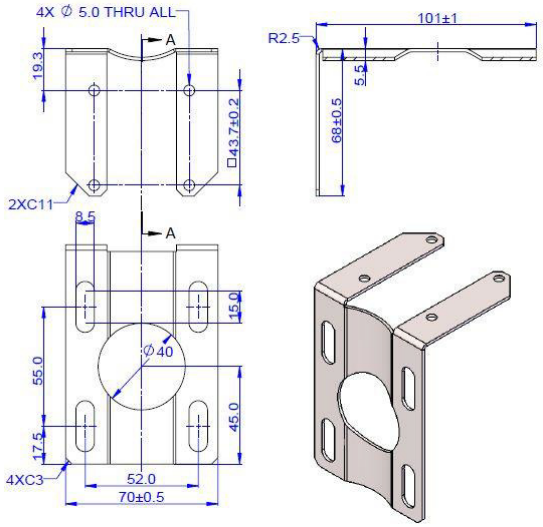
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Antenna Drawing



Mounting Bracket Drawing



While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Checker	Approved	Date
YH.B	27/11/15	J.X	Tracy.N	28/09/15

Rev.	Engineering change number	Name	Date
0.1	Initial	Tracy.N	27/11/15

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