

SO-5G & GPS

Sirio Omnidirectional Multi-Band (5G bands & GPS/Glonass/...)

MAIN FEATURES

- Omnidirectional Wide Band Dipole antenna & preamplified GPS module
- Working on 5G spectrum (2G-GSM, 3G-UMTS, 4G-LTE, 5G, WiFi, W-Lan etc).
- Working on GPS/GLONASS/QZSS/Galileo/L1
- FT-7 bracket quick installation on the horizontal or vertical mast.
- Completely sealed and waterproof IP67
- Designed & Manufactured in Italy
- Product PATENTED



PATENTED

Installation Manual

SPECIFICATIONS

Electrical Data	SO-5G & GPS	
Type	Cellular: Wide Band Dipole	GPS: ceramic chip
Frequency Range	Cellular: 650 ÷ 960 MHz, 1.7 ÷ 2.7 GHz, 3.3 ÷ 4.2 GHz (5G, 4G-LTE, W-lan etc.) GPS: 1575 ÷ 1606 MHz (GPS/GLONASS/QZSS/Galileo/L1)	
Impedance	50 Ω	
Radiation (H-plane)	Cellular: 360° omnidirectional;	GPS: Hemispherical
Radiation (E-plane) Beamwidth @ -3 dB:	Cellular: see diagrams	
Radiation angle deg.	Cellular: see diagrams	
Polarization	Cellular: Linear Vertical;	GPS: RHCP
Antenna Gain	Cellular: 650 ÷ 960 MHz = 2.1 dBi; 1.7 ÷ 2.7 GHz = 4 ÷ 6 dBi 3.3 ÷ 4.2 GHz = 6 ÷ 8 dBi GPS: 3 dBi (approx)	
Isolation	> 19 dB @ 650 ÷ 960 MHz > 25 dB @ 1.7 ÷ 4.2 GHz	
Max Power (CW) @ 30° C	Cellular: 10 Watts @ 650 ÷ 960 MHz; 5 Watts @ 1.7 ÷ 4.2 GHz GPS: receiving only	
Preamplifier GPS: Amplifier Gain	28 dB @ Vcc = 5 V	
Preamplifier GPS: Supply Voltage	3 ÷ 5 Vcc (+V on center pin "GPS" connector)	
Preamplifier GPS: Current consumption	10 mA (approx)	
Preamplifier GPS: Noise Figure	< 1.8 dB	
Cable Length / Cable Type / Connector	2x 5m; 16.4 ft other on request / White Low loss / 2x SMA-male, other on request	

Mechanical Data

Housing & Radome Material	Fiberglass, PCB, Anodized aluminium, Nickel plated brass
Bracket & Hardware Material	Stainless steel, Molded Plastic
Wind Load @ 150 Km/h, 93 mi/h	37 N
Wind Resistance	200 Km/h, 124 mi/h
Wind Surface	0.027 m ² ; 0.29 ft ²
Dimensions (approx.)	L x W x H: 90 x 200 x 370 mm; 3.5 x 7.9 x 14.5 in
Weight (with bracket, approx.)	1150 gr, 2.5 lb
Operating Temperature	-40 °C to +80 °C
Ingress Protection	IP 67
Installation type	Horizontal or Vertical mast: Ø 35 ÷ 60mm, Ø 1.4 ÷ 2.4 inch with U-bolt Wall: with screws (not included)

Mounting needed tools:

13 mm open key

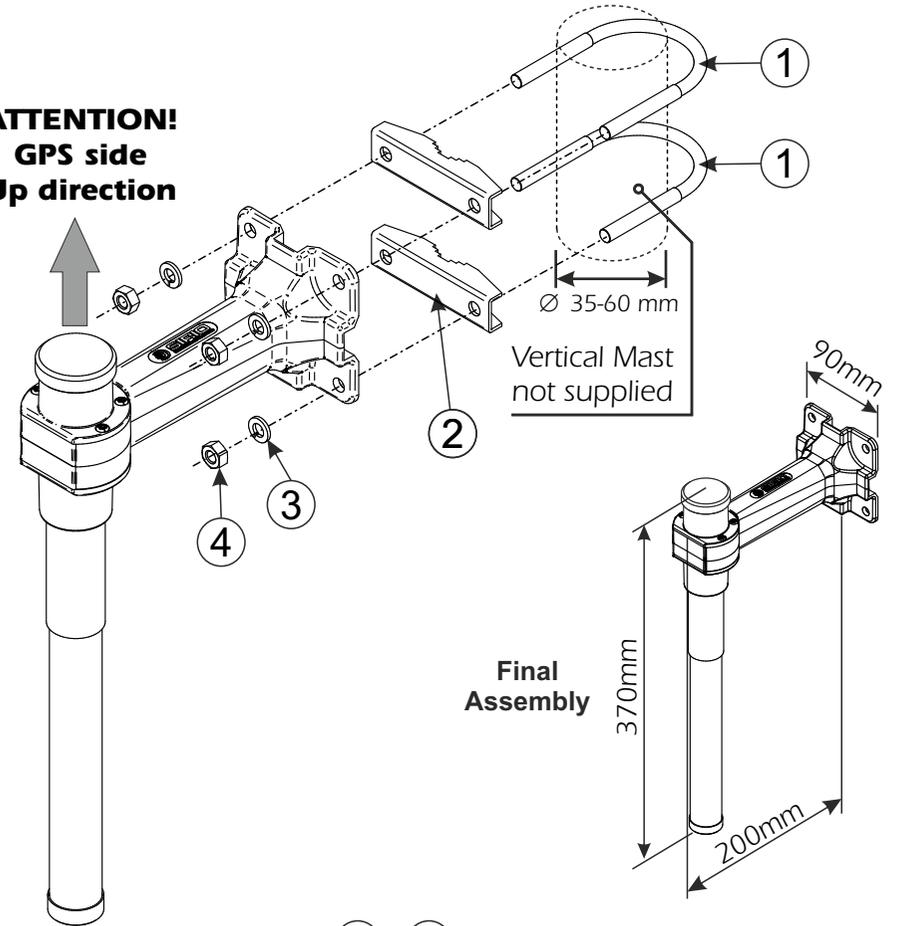
Fixing Accesories Parts List

Re-order code: WK100044

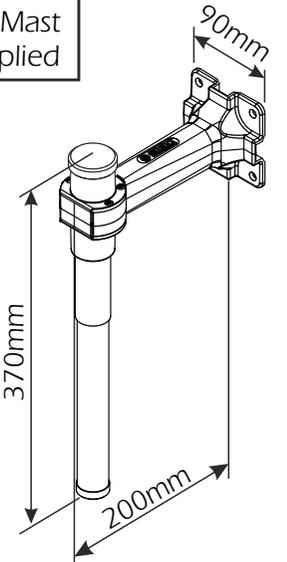
Pos	Q.ty	Description
1	2	M8x97 mm U-bolts
2	2	Stainless steel bracket
3	4	M8 spring lock washers
4	4	M8 hexagonal nuts

MOUNTING INSTRUCTIONS

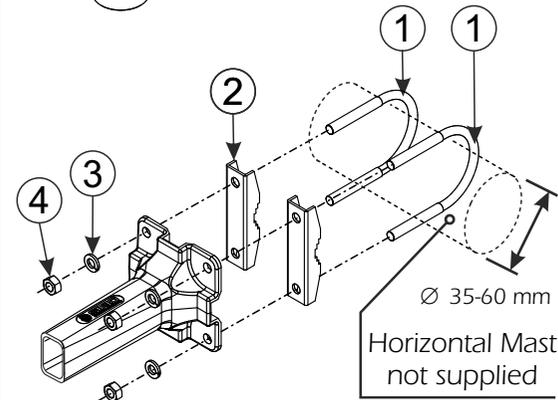
ATTENTION!
GPS side
Up direction



Final Assembly



Wall mount
(screws not included)



Horizontal Mast
not supplied