HIRSCHMANN MOBILITY

IRIDIUM/ GNSS (GPS/GLONASS)/ WLAN (2.4 GHz) Screw Antenna

IGNW 24 LP S/series

Pt. nos.
955-056-...
955-066-...

- For use in telematic applications
- Low profile (19mm height)
- Mounting on several surfaces (e.g. plastic, metal, …)
- Customization of cable lengths, types and connectors possible

Subject to alterations

1. Technical data

Dimensions	124mm x 80mm x 21mm
Weight	200 g
Temperature range	-40°C to +85°C
Protection class	IP66 (acc. IEC 60529)
IRIDIUM	
Frequency range	1616 - 1626.5 MHz
Impedance	50 Ohm
VSWR	≤ 1.8
Gain	3 dBic[3]
Polarization	RHCP
Axial ratio	< 4 dB
Load capacity	8 W
Lightning protection	DC grounded
GNSS (GPS/ GLONASS)	
Frequency range	GPS: 1.57542 GHz ± 1.023 MHz (L1-band) GLONASS: 1602.0 - 1614.94 MHz
Impedance	50 Ohm
Gain	2 dBic min.[3]
Amplification	26 ± 2 dB typ.
Noise figure (50 Ohm)	≤ 1.4 dB typ.
Voltage supply	3 V - 5.5 V
Current consumption	≤ 13 mA at 5 V ± 0.5 V (typ. 10mA)
WLAN (optional)	
Frequency range	Bluetooth: 2400 - 2484 MHz IEEE Std. 802.11b: 2412 - 2484 MHz
Impedance	50 Ohm
Gain	0 dB
Return loss	> 12 dB
Load capacity	Max. 1 W (acc. IEEE 802.11b)

[1] Other cable lengths available upon request

[2] Other configurations available upon request

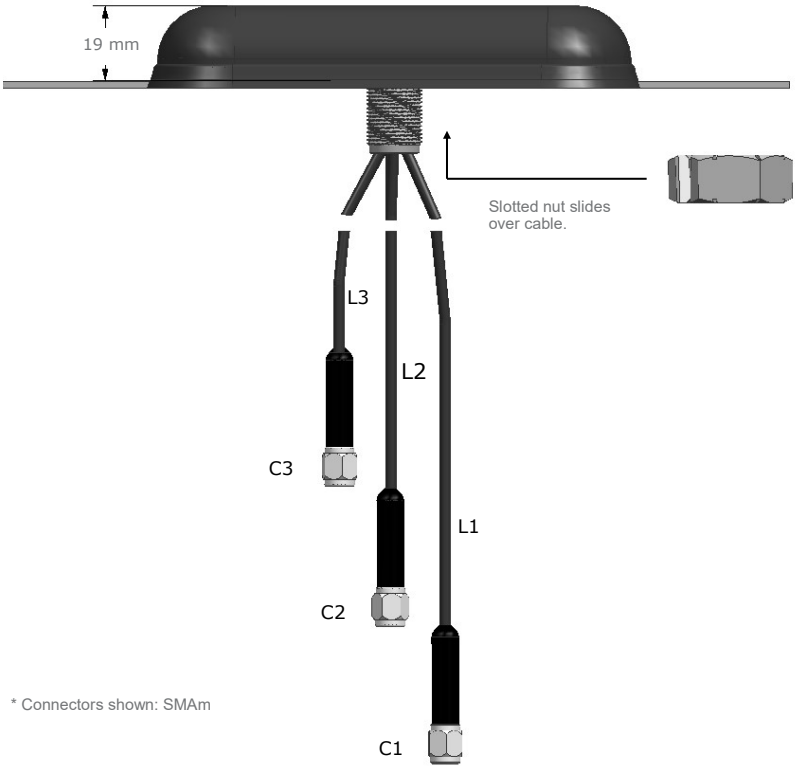
[3] dBic: referenced to an isotropic radiator, circular polarization

Subject to alterations

2. Product Family

Order code	Cable (length)			Connector (type)			Remark
	IRIDIUM	GNSS	WLAN	IRIDIUM	GNSS	WLAN	
Versions	L1	L2	L3	C1	C2	C3	
955-056-001	200 mm	170 mm	140 mm	SMA male	SMA male	SMA male	Cable RG174, ROHS, nut wrench 27mm
955-066-001	200 mm	170 mm	140 mm	SMA male	SMA male	SMA male	Cable RG174, ROHS, nut wrench 22mm
Customization of cable lengths, types and connectors possible.							

3. Technical Drawings



* Connectors shown: SMAm

Subject to alterations

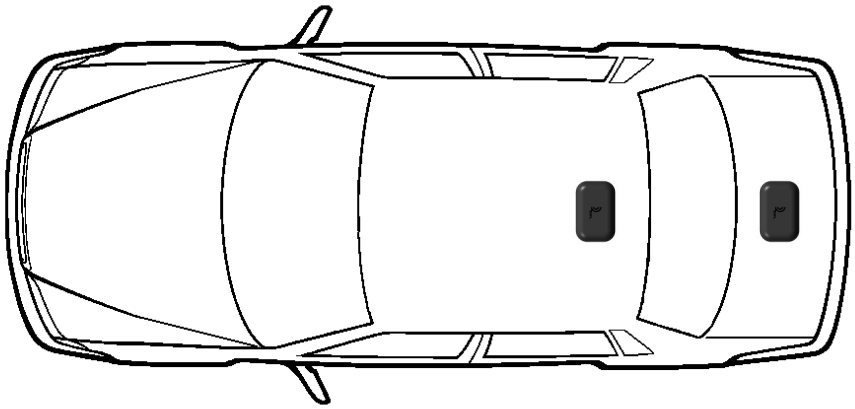
4. Mounting example and procedure

Vehicle roof mounting

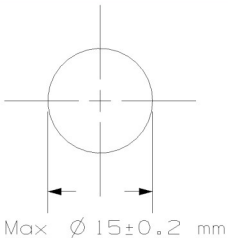
Mounting requirements and restrictions

- Choose appropriate mounting location on flat surface (see Sketch #1) .
- Max. tolerable mounting material thickness 10 mm.
- Safely drill 15 mm mounting hole at desired location (see Sketch #2)
- Clean mounting area with isopropyl alcohol or similar.
- Unscrew mounting nut (see Sketch #3)
- Feed all cables through mounting hole (see Sketch #4)
- Slide slotted mounting nut over cables and screw back on to antenna mounting stud.
- Maximum tightening torque is 5Nm.

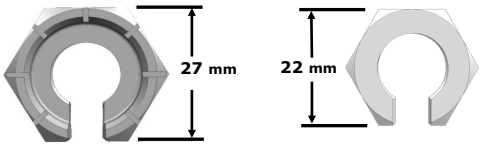
Sketch #1 - Select Mounting Location



Sketch #2 - Required Mounting hole



Sketch #3 - Mounting Nut

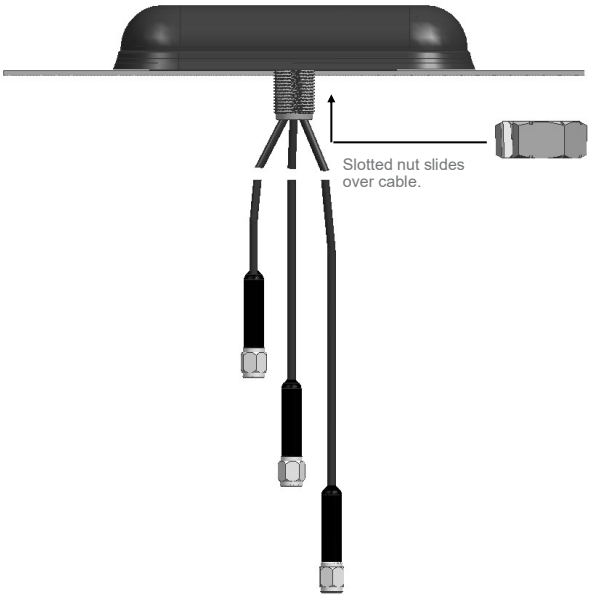


Used on: HIRD-S2-0101x-01

Used on: HIRD-S2-0117x-01

Both mounting nuts require the same mounting hole as described in sketch #2.

Sketch #4 - Mount in hole



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