



UBIDIUM FOLDABLE GROUND ANTENNA

The foldable Ubidium Ground Antenna revolutionizes UHF timing with a unprecedented flexibility and highest detection rates.

Each segment contains a specially developed RACE RESULT UHF reader and antenna. The mat connects directly to Ubidium. It can be adjusted in length as desired, up to 23 meters per system (30 segments).

Features

- Custom UHF reader and antenna integrated in each element
- Advanced reading pattern for highest detection rates
- Seamless connection to Ubidium with a single connector
- Adjustable length up to 23m (30 elements) for flexible setup
- Dual internal antenna strings for enhanced reliability
- Low-profile design with high adaptability to various surfaces



Environmental

Outside air temperature range	-20 °C – 45 °C
Element temperature range	-20 °C – 80 °C
Humidity (inside segment)	95 % RH, non condensing
IP-rating	IP67* (temporary immersion in water causes no damage)
Max. shock	10 G
*Open elements and let them dry after usage	

Electrical - Reader Module

Voltage and current	11.5 – 16.8 V 0.85 A
Power idle	650 mW
Power RF active	Average 4.7 W Peak 6.4 W

Electrical - RF Characteristics

Dualband 865 – 868 MHz and 902 – 928 MHz design, power and frequency are in compliance with region settings.

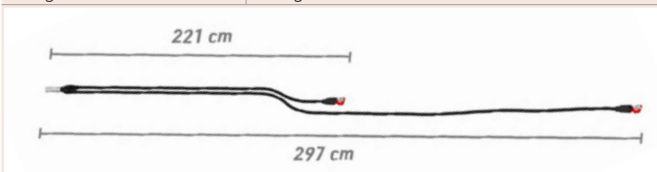
Complies to	ARIB STD-T106 ETSI EN 302 208 FCC 15.247(a)(1) RSS-247 Issue 4
Regulatory Approvals	Canada, Egypt, Europe including UK, India, Japan, Kuwait, Malaysia, Qatar, UAE, USA

Mechanical - Single Antenna Segment

Weight	3.8 kg
Dimensions	770 x 349 x 20 mm

Mechanical - Reader Cable

Length	Expansion port connector to - first antenna element: 221 cm - second antenna element: 297 cm
Weight	510 g



Mechanical - Interconnecting Cable

Length	139.5 cm
Weight	128 g

Mechanical - Typical Configurations

2 elements (1,5 m) - shortest possible configuration / extension	7.6 kg
6 elements (4,6 m) - standard system	24 kg
10 elements (7,7 m) - standard + 2 extensions	38.6 kg
30 elements (23 m) - longest possible	114.6 kg

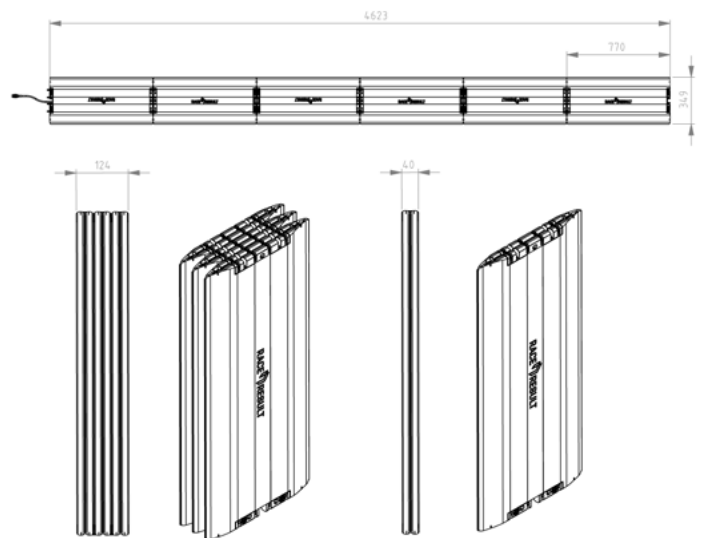
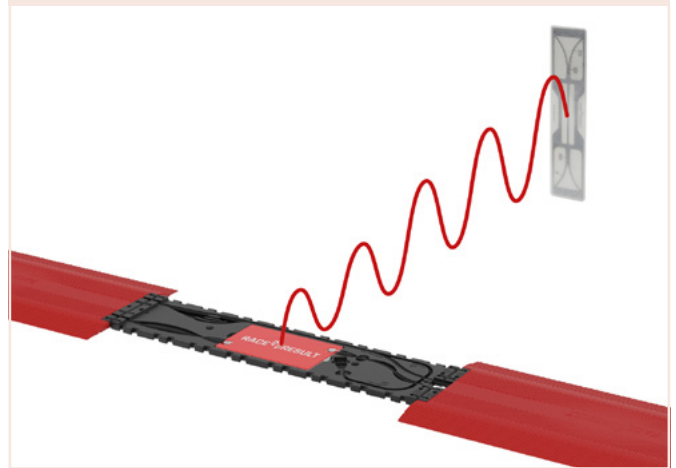
Patents

This product may be protected by one or more of the patents listed below. Additional patents may be pending.

Patent Numbers:	EP4322049B1 US12530927B2	EP4322050B1 US12536391B2
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Electrical - Antenna

Integrated, Dual Band, vertical polarization.



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