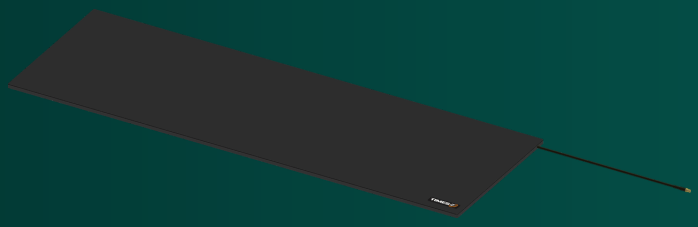
IDCRAFT
RFID & NFC EXPERTS

UHF RFID | RAIN - Ground Antenna

Times-7 - A6590L



- 10 dBi typ. gain, linear polarisation
- Ultra-slim 8 mm, doorway-sized footprint
- Beam 72° x 23°, 20 dB front-to-back
- IP65, loads up to 500 kg distributed
- Up to 6 W input power

UHF RFID | RAIN - Ground Antenna
10 dBi linear ground antenna, 915 x 305 mm, only 8 mm thin

The Times-7 A6590L is a linearly polarised RAIN RFID ground antenna for moving products, assets and people, built for situations where side-mounted antennas are unsuitable. At 915 x 305 x 8 mm and 2 kg it lies flat on the floor within a doorway-sized footprint. It delivers 10 dBi typical gain with a 3 dB beamwidth of 72° in the XZ plane and 23° in the YZ plane.

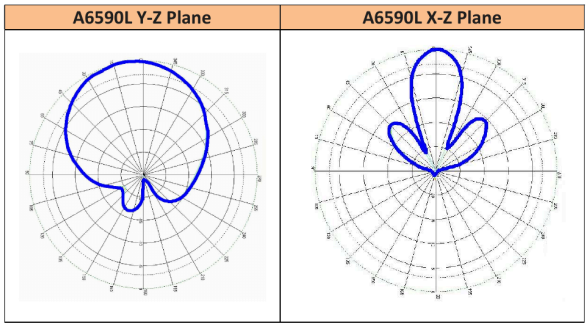
Typical VSWR is 1.4 and the front-to-back ratio 20 dB. Linear polarisation gives the highest range with tags aligned to the antenna's polarisation plane. ETSI (864–868 MHz) and FCC (902–928 MHz) versions work with any UHF RFID reader with a 50 Ω antenna port. The antenna has anti-static protection and accepts up to 6 W input power.

The fire-retardant ABS housing is rated IP65 for indoor and outdoor use from -20 to +55 °C and can be concealed under a mat or other covering. It carries hand trolleys, rubber-wheeled carts, runners, bicycles and occasional pneumatic-tyred vehicles, with point loads up to 7 kg per square centimetre and distributed loads up to 500 kg. The connector is an SMA female side fly lead (300 mm) or a 2 m cable to RP-TNC plug.

Common Applications

- Conference Attendee Tracking
- Race And Event Timing
- Retail Loyalty Marketing
- Retail Presence Detection
- Doorways And Walkways
- Concealed Floor Reading

Radiation Patterns



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TECHNICAL SPECIFICATIONS

Electrical

Frequency Range	864–868 MHz (ETSI) 902–928 MHz (FCC)
Polarisation	Linear
Far-Field Gain	10 dBi typical
3 dB Beamwidth	72° XZ, 23° YZ
VSWR	1.4 typical
Front-to-Back Ratio	20 dB
Impedance	50 Ω
ESD Protection	Yes
Max. Input Power	6 W

Ordering Information

A6590L, ETSI	71234
A6590L, FCC	71211

Cable Accessories (SMA to RP-TNC)

2 m, LMR 195 / 240 / 400	71436 / 71782 / 72042
4 m, LMR 240 / 400	71784 / 72043
6 m, LMR 240 / 400	71904 / 72044
8 m, LMR 240 / 400	71788 / 72045

Mechanical

Dimensions	915 x 305 x 8 mm
Weight	2 kg
Radome	Fire-retardant ABS
Connector (Version 1)	SMA female side fly lead, 300 mm
Connector (Version 2)	2 m cable to RP-TNC plug
Installation	Flat on smooth, hard surface
Max. Point Load	7 kg per sq. cm
Max. Distributed Load	500 kg

Environmental

Protection Class	IP65
Operating Temperature	-20 to +55 °C
Storage Temperature	-30 to +65 °C
Compliance	RoHS, CE