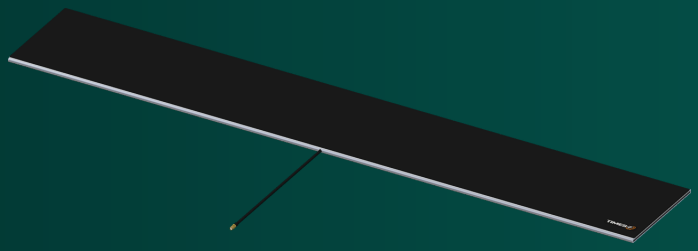
IDCRAFT
RFID & NFC EXPERTS

UHF RFID | RAIN - Ground Antenna
Times-7 - A5531V



- 10 dBi typ. gain, vertical linear
- 1.2 m long, only 10 mm thin
- Beam 25° x 70°, VSWR 2.0 typical
- Loads up to 500 kg distributed
- Can be concealed under a mat

UHF RFID | RAIN - Ground Antenna
10 dBi vertical linear ground antenna, 1200 x 195 x 10 mm

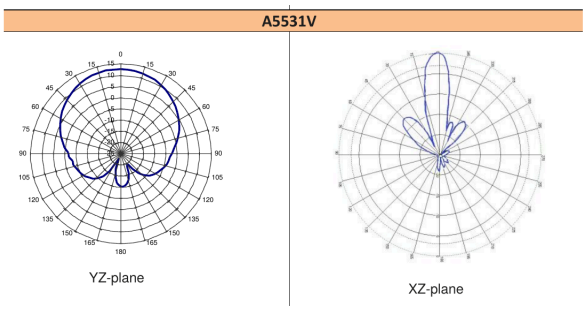
The Times-7 A5531V is the vertically linear polarised version of the A5531 RAIN RFID ground antenna, built for moving products, assets and people where side-mounted antennas are unsuitable. At 1200 x 195 x 10 mm and 2.7 kg it lies flat on the ground and spans 1.2 m. It delivers 10 dBi typical gain with a 3 dB beamwidth of 25° in the XZ plane and 70° in the YZ plane.

Typical VSWR is 2.0 and the front-to-back ratio is 20 dB. Vertical linear polarisation gives the most range with tags aligned to the antenna's polarisation plane. Versions for 865–868 MHz (ETSI) and 902–928 MHz (FCC) work with any UHF RFID reader with a 50 Ω antenna port. The antenna is DC grounded for ESD protection, accepts up to 3 W and offers antenna detection via a 10 kΩ resistance.

The fire-retardant ABS housing is rated IP53 and operates from 0 to +50 °C; Times-7 recommends covering the radome with RF-transparent material, such as a mat. 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; install it on a smooth, hard, flat surface. An SMA female side fly lead (298 mm) connects to the reader cable.

Common Applications

- Conference Attendee Tracking
- Race And Event Timing
- Industrial Asset Tracking
- Personnel Tracking
- Doorways And Walkways
- Concealed Floor Reading



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Times-7 - A5531V

UHF RFID | RAIN - Ground Antenna

TECHNICAL SPECIFICATIONS

Electrical

Frequency Range	865–868 MHz (ETSI) 902–928 MHz (FCC)
Polarisation	Vertical linear
Far-Field Gain	10 dBi typical
3 dB Beamwidth	25° XZ, 70° YZ
VSWR	2.0 typical
Front-to-Back Ratio	20 dB
Impedance	50 Ω
ESD Protection	Yes, DC grounded
Antenna Detection	10 kΩ resistance
Max. Input Power	3 W

Ordering Information

A5531V, ETSI	71103
A5531V, FCC	71100

Cable Accessories (SMA to RP-TNC)

2 m, T7 195 / 240 / 400	71436 / 71782 / 72042
4 m, T7 240 / 400	71784 / 72043
6 m, T7 240 / 400	71904 / 72044
8 m, T7 240 / 400	71788 / 72045

Mechanical

Dimensions	1200 x 195 x 10 mm
Weight	2.7 kg net
Radome	Fire-retardant ABS
Connector	SMA female side fly lead
Cable	195 type, 298 mm
Installation	Flat on smooth, hard surface
Max. Point Load	7 kg per sq. cm
Max. Distributed Load	500 kg

Environmental

Protection Class	IP53
Operating Temperature	0 to +50 °C
Storage Temperature	-30 to +60 °C
Compliance	RoHS, CE