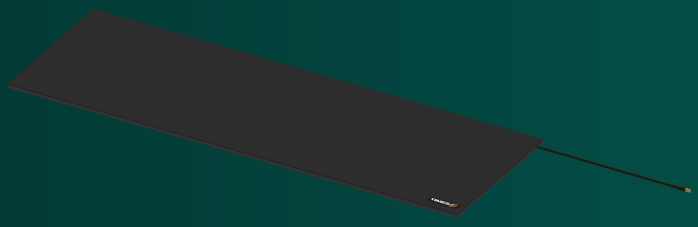
IDCRAFT

RFID & NFC EXPERTS

UHF RFID | RAIN - Ground Antenna

Times-7 - A6590C



- 9 dBiC typ. gain, right-hand circular
- Ultra-slim 8 mm, doorway-sized footprint
- Beam 20° (XZ) x 80° (YZ), 3 dB
- IP65, loads up to 500 kg distributed
- SMA-F 300 mm or RP-TNC 2 m cable

UHF RFID | RAIN - Ground Antenna
9 dBiC circular underfloor antenna, 915 x 305 mm, only 8 mm

The Times-7 A6590C is a circularly polarised RAIN RFID ground antenna for items, assets and people in motion. At 915 x 305 x 8 mm it lies flat on the floor within a doorway-sized footprint. A right-hand circularly polarised element delivers 9 dBiC typical gain with a 3 dB beamwidth of 20° in the XZ plane and 80° in the YZ plane.

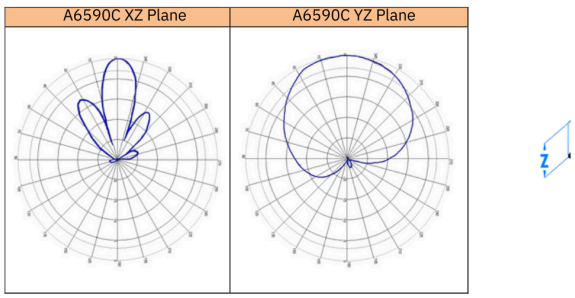
Typical VSWR is 1.4, the axial ratio 2 dB and the front-to-back ratio 24 dB. Versions for 865–868 MHz (ETSI) and 902–928 MHz (FCC) work with any UHF RFID reader with a 50 Ω antenna port. The antenna is DC grounded for ESD protection, accepts up to 3 W and offers antenna detection via a 10 kΩ resistance.

The flame-retardant ABS housing is rated IP65 and operates from -20 to +55 °C. 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. Two connector versions are available: SMA female on a 300 mm cable or RP-TNC plug on a 2 m cable.

Common Applications

- Conference Attendee Tracking
- Retail Presence Detection
- Race And Event Timing
- Industrial Conveyors
- Doorways And Walkways
- Logistics Asset Tracking

RADIATING PATTERNS



IDCRAFT
RFID & NFC EXPERTS

Times-7 - A6590C

UHF RFID | RAIN - Ground Antenna

TECHNICAL SPECIFICATIONS

Electrical

Frequency Range	865–868 MHz (ETSI) 902–928 MHz (FCC)
Polarisation	Right-hand circular
Far-Field Gain	9 dBiC typical
3 dB Beamwidth	20° XZ, 80° YZ
VSWR	1.4 typical
Axial Ratio	2 dB typical
Front-to-Back Ratio	24 dB
Impedance	50 Ω
ESD Protection	Yes, DC grounded
Antenna Detection	10 kΩ resistance
Max. Input Power	3 W

Ordering Information

SMA-F 300 mm, ETSI	71324
SMA-F 300 mm, FCC	71325
RP-TNC 2 m, ETSI	71799
RP-TNC 2 m, FCC	71749

Mechanical

Dimensions	915 x 305 x 8 mm
Weight	2.4 kg net
Radome	Flame-retardant ABS
Connector (Version 1)	SMA female, 300 mm cable
Connector (Version 2)	RP-TNC plug, 2 m cable
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