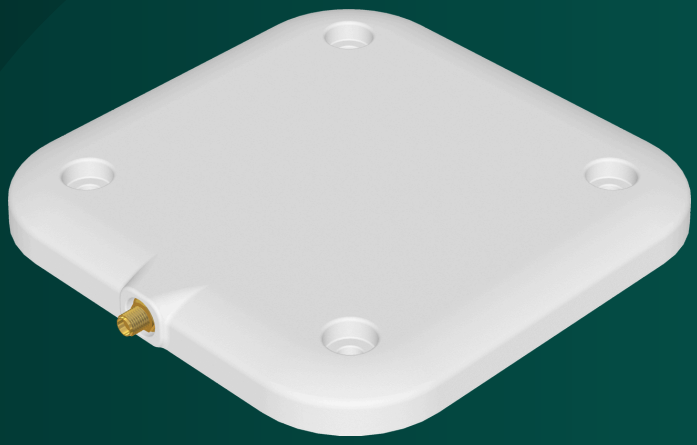
IDCRAFT
RFID & NFC EXPERTS

UHF RFID | RAIN - Mid-Range Antenna

Times-7 - A5020MR



- Confined read zone of up to 1.5 m
- -3 dBiC typ. gain, 115° x 105° beamwidth
- Right-hand circular polarisation
- IP68 all-plastic housing, 14.5 mm deep
- Flush or 100 x 100 mm VESA mounting

UHF RFID | RAIN - Mid-Range Antenna
Mid-range CP antenna, read zone up to 1.5 m, IP68, 14.5 mm

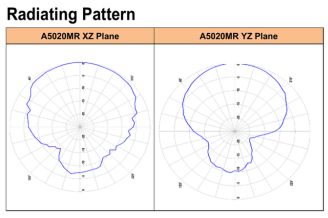
The Times-7 A5020MR is the mid-range member of the A5020 family of compact, ultra-low-profile RAIN RFID antennas. It is tuned to read just beyond the near-field zone, so tagged items within up to 1.5 m are captured while items further away are ignored. Right-hand circular polarisation, -3 dBiC typical gain and a 115° (XZ) by 105° (YZ) beam sit in a 150.7 x 149.4 x 14.5 mm housing.

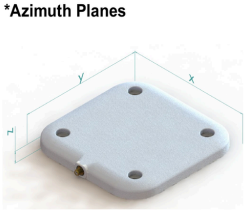
The deliberately reduced gain keeps the RF field under control even at higher reader output power, which prevents stray reads in busy, complex environments. Typical VSWR is 1.8, axial ratio 2.5 dB and front-to-back ratio 8 dB. The antenna covers 865–868 MHz (ETSI) or 902-928 MHz (FCC) and works with any UHF RFID reader with a 50 Ω antenna port; a 10 kΩ detection resistance lets readers identify it.

The flame-retardant, UV-resistant white ABS radome is rated IP68 for permanent outdoor installation and withstands knocks on conveyors. Recessed corner holes allow flush mounting with 30 mm wood screws or fitting to 100 x 100 mm VESA brackets. The SMA jack exits on the side; the optional A5020 Connector Protection Backplate shields the connector when the antenna sits on a bracket in free space.

Common Applications

- Kiosks And Self-Checkout
- Point Of Sale
- Sorting Conveyors
- Packaging Lines
- Cabinetry
- Shelf Monitoring





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UHF RFID | RAIN - Mid-Range Antenna

TECHNICAL SPECIFICATIONS

Electrical

Frequency Range	865–868 MHz (ETSI) 902–928 MHz (FCC)
Polarisation	Right-hand circular
Far-Field Gain	-3 dBiC typical
3 dB Beamwidth	115° (XZ), 105° (YZ)
VSWR	1.8 typical
Axial Ratio	2.5 dB typical
Front-to-Back Ratio	8 dB
Impedance	50 Ω
ESD Protection	Yes, DC grounded
Antenna Detection	10 kΩ resistance
Max. Input Power	3 W

Ordering Information

A5020MR, ETSI	72389
A5020MR, FCC	72388
Connector Protection Backplate	72394

Mechanical

Dimensions	150.7 x 149.4 x 14.5 mm
Boxed Dimensions	180 x 155 x 25 mm
Weight	0.20 kg net, 0.25 kg gross
Radome	Flame-retardant, UV-resistant ABS
Colour	White
Connector	SMA jack, side exit
Mounting	Flush or 100 x 100 mm VESA
Flush Screws	30 mm 8g Phillips wood screws

Environmental

Protection Class	IP68
Operating Temperature	-30 to +65 °C
Storage Temperature	-30 to +65 °C
Compliance	RoHS, REACH, CE data on request