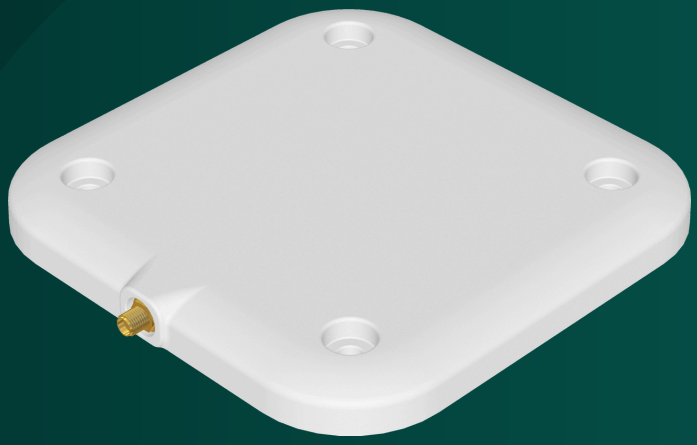
IDCRAFT
RFID & NFC EXPERTS

UHF RFID | RAIN - Near-Field Antenna

Times-7 - A5020NF



- Near-field read zone up to 100 mm
- Far-field gain equivalent to -30 dBi
- One wideband SKU for 865–928 MHz
- IP68 all-plastic housing, 14.5 mm deep
- Flush or 100 x 100 mm VESA mounting

UHF RFID | RAIN - Near-Field Antenna
Tap-and-go near-field antenna, 100 mm read zone, 865–928 MHz

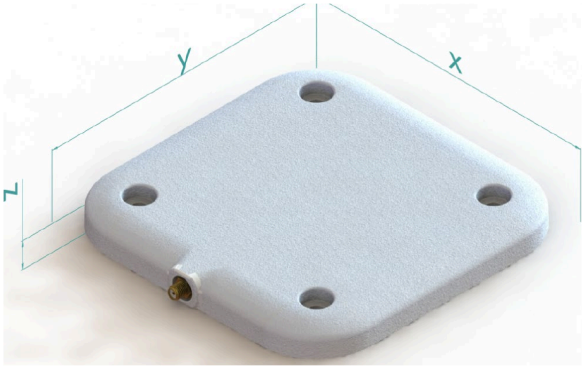
The Times-7 A5020NF is the near-field member of the A5020 family of compact, ultra-low-profile RAIN RFID antennas. It is tuned to read only in the near-field zone, up to 100 mm from the antenna surface, so only objects brought into close contact are recorded. Far-field gain is equivalent to -30 dBi, and the 150.7 x 149.4 mm housing is only 14.5 mm deep.

With practically no far-field radiation, the A5020NF prevents stray reads from people or items passing nearby, which is essential for tap-and-authenticate doors, badge payment and tool release. One wideband version covers 865–928 MHz for both ETSI and FCC regions, with a typical VSWR of 1.4. It works with any UHF RFID reader with a 50 Ω antenna port; a 100 Ω detection resistance lets readers identify it.

The flame-retardant, UV-resistant white ABS radome is rated IP68, so the antenna also suits permanent outdoor installation and customer-facing counters. 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

- Tap-And-Go Access Control
- UHF Badge Payment
- Cafeteria Point Of Sale
- Instrument Lock Release
- Direct Contact Reads
- Customer-Facing Counters



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Times-7 - A5020NF

UHF RFID | RAIN - Near-Field Antenna

TECHNICAL SPECIFICATIONS

Electrical

Frequency Range	865–928 MHz (ETSI and FCC)
Field Type	Near-field
Read Zone	Up to 100 mm from surface
Far-Field Gain	Equivalent to -30 dBi
VSWR	1.4 typical
Impedance	50 Ω
ESD Protection	Yes, DC grounded
Antenna Detection	100 Ω resistance
Max. Input Power	3 W

Ordering Information

A5020NF, wideband	72057
Connector Protection Backplate	72394

Mechanical

Dimensions	150.7 x 149.4 x 14.5 mm
Weight	0.18 kg net, 0.23 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