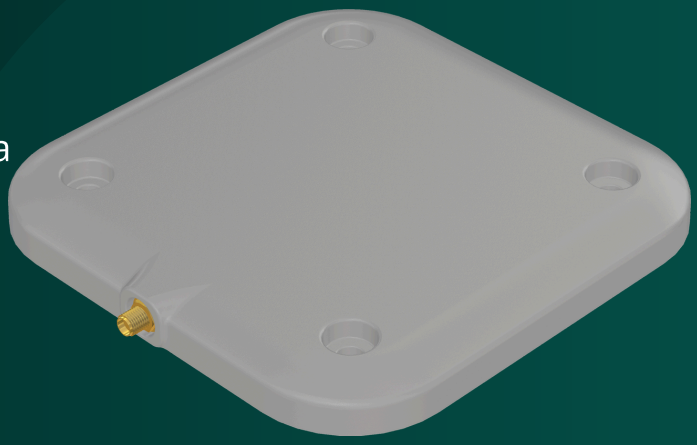
IDCRAFT
RFID & NFC EXPERTS

UHF RFID | RAIN - Far-Field Panel Antenna

Times-7 - A5020LX



- Operates from -90 to +65 °C
- IP69K and IP68 rated grey ABS housing
- 5 dBi typ. gain, vertical linear
- Compact 150.7 x 149.4 mm, 14.5 mm deep
- Flush or 100 x 100 mm VESA mounting

UHF RFID | RAIN - Far-Field Panel Antenna
Linear 5 dBi antenna for -90 to +65 °C, IP69K, 14.5 mm slim

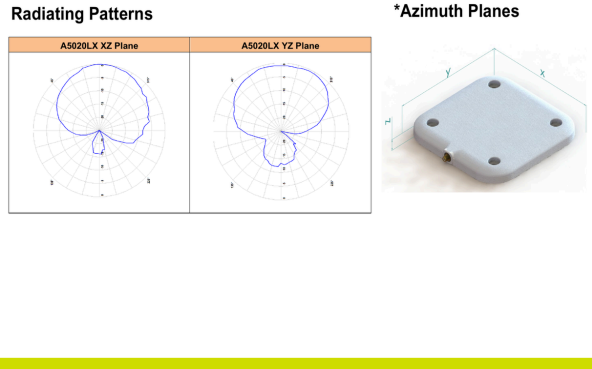
The Times-7 A5020LX is the ultra-rugged, linearly polarised member of the A5020 family of compact, ultra-low-profile RAIN RFID antennas. It is vertically polarised along the Y axis and delivers 5 dBi typical gain with a 100° (XZ) by 105° (YZ) 3 dB beamwidth, in a 150.7 x 149.4 mm housing that is only 14.5 mm deep and operates from -90 to +65 °C.

Linear polarisation concentrates energy in one plane for longer reads where the tag orientation is known, typical VSWR is 2.5 and the front-to-back ratio is 12 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. The antenna detection resistance is 0 Ω, and the DC-grounded design provides anti-static protection.

The flame-retardant, UV-resistant grey ABS radome is rated IP69K and IP68: it survives high-pressure water cleaning, resists general-purpose chemicals and suits permanent outdoor use and ultra-low-temperature freezers for vaccines, organs and tissue. Recessed corner holes allow flush mounting with 30 mm wood screws or fitting to 100 x 100 mm VESA brackets. The optional A5020 Connector Protection Backplate shields the side-exit SMA jack on brackets.

Common Applications

- Deep Freezers To -90 °C
- Pharma And Lab Fridges
- Forklift Asset Tracking
- Drive-Throughs And Car Parks
- Fleet Management
- Food And Meat Processing



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UHF RFID | RAIN - Far-Field Panel Antenna

TECHNICAL SPECIFICATIONS

Electrical

Frequency Range	865–868 MHz (ETSI) 902–928 MHz (FCC)
Polarisation	Vertical linear (Y axis)
Far-Field Gain	5 dBi typical
3 dB Beamwidth	100° (XZ), 105° (YZ)
VSWR	2.5 typical
Front-to-Back Ratio	12 dB
Impedance	50 Ω
ESD Protection	Yes, DC grounded
Antenna Detection	0 Ω resistance
Max. Input Power	3 W

Ordering Information

A5020LX, ETSI	72387
A5020LX, FCC	72386
Connector Protection Backplate	72394

Mechanical

Dimensions	150.7 x 149.4 x 14.5 mm
Weight	0.23 kg net, 0.28 kg gross
Radome	Flame-retardant, UV-resistant ABS
Colour	Grey
Connector	SMA jack, side exit
Mounting	Flush or 100 x 100 mm VESA
Flush Screws	30 mm 8g Phillips wood screws

Environmental

Protection Class	IP69K and IP68
Operating Temperature	-90 to +65 °C
Storage Temperature	-90 to +65 °C
Compliance	RoHS, REACH, CE data on request