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RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx8CRS



- > 8 dBic gain, circular polarization
- 70° beamwidth, front-to-back ratio 20 dB
- 902–928 MHz, VSWR ≤ 1.3:1
- Side RP-TNC connector, 200 × 200 mm
- IP65, impact- and vibration-resistant

UHF | RAIN - Panel Antenna
Rugged 8 dBic panel for harsh environments

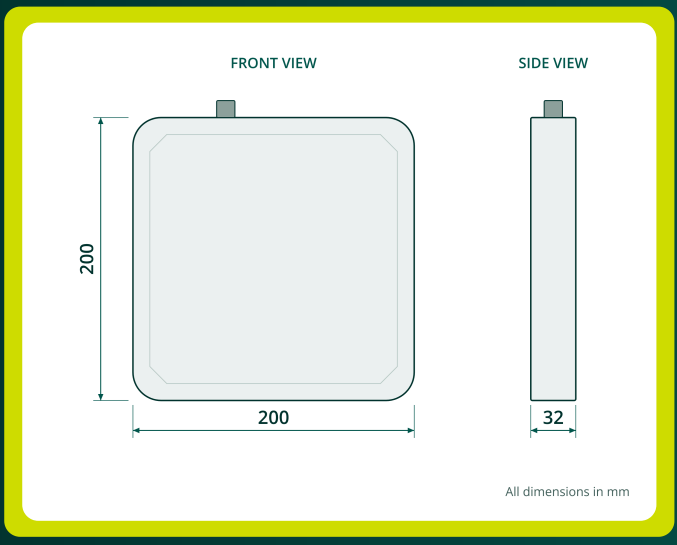
The CT panAx8CRS is a rugged, circularly polarized UHF | RAIN RFID far-field panel antenna. More than 8 dBic gain and a 70° × 70° beam cover typical read zones at dock doors, gates and conveyors, and a front-to-back ratio of 20 dB keeps reads behind the antenna low. The 200 × 200 × 32 mm housing weighs 1.3 kg.

Circular polarization keeps tag detection largely independent of how a tag is rotated in front of the antenna. The antenna covers 902–928 MHz with VSWR ≤ 1.3:1 and 50 ± 1 Ω impedance and suits any UHF | RAIN RFID reader (ISO/IEC 18000-63, EPC Gen2).

The aluminium-alloy and ASA housing is designed for impact and vibration resistance; a double seal of gasket and silicone gives IP65 for indoor and outdoor use from −40 to +85 °C (not for acidic or alkaline atmospheres). The RP-TNC female connector sits on the side; four M4 threaded holes on the rear take an optional bracket for steel frames or poles.

Common Applications

- Access Control
- Warehousing
- Logistics
- Retail
- Dock Doors
- Industrial Gates



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TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna
Frequency Range	902–928 MHz
Gain	> 8 dBic
Polarization	Circular
Beamwidth	70° × 70°
Front-to-Back Ratio	20 dB
VSWR	≤ 1.3:1
Impedance	50 ± 1 Ω
Connector	RP-TNC female, side

Part No. / Model

panAx8CRS-US	902–928 MHz version

Physical Characteristics

Dimensions	200 × 200 × 32 mm
Weight	1.3 kg (without bracket)
Housing	Aluminium alloy, ASA engineering plastic
Colour	Milk white
Mounting	4 × M4 threaded holes, 51.9 mm square

Environmental

Protection Class	IP65
Operating Temperature	−40 to +85 °C
Storage Temperature	−40 to +85 °C
Relative Humidity	5–95 %