IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx9C

- 9 dBic gain, circular polarization
- 70° half-power beamwidth in both planes
- EU (865–868 MHz) or US (902–928 MHz)
- IP67 housing, −40 to +85 °C
- Rear N female connector, VSWR ≤ 1.3:1



UHF | RAIN - Panel Antenna
9 dBic circular polarization for long-range read zones

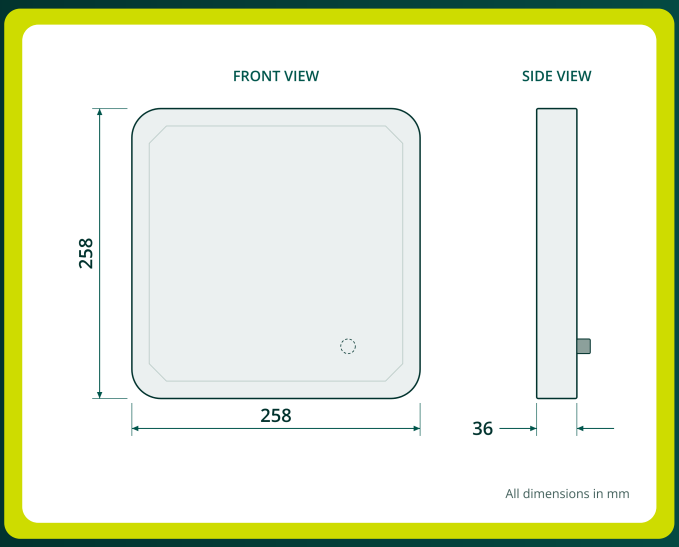
The CT panAx9C is a circularly polarized UHF | RAIN RFID far-field panel antenna for fixed readers. It combines 9 dBic gain with a 70° half-power beamwidth in both planes and covers wide read zones at long range. The 258 × 258 × 36 mm housing weighs 0.91 kg without bracket.

Circular polarization keeps tag detection largely independent of how a tag is rotated in front of the antenna. Two band versions are available: 865–868 MHz for Europe and 902–928 MHz for North America, each with VSWR ≤ 1.3:1 and 50 ± 1 Ω impedance. The antenna suits any UHF | RAIN RFID reader (ISO/IEC 18000-63, EPC Gen2) and connects via 50 Ω coaxial cable to its rear N female socket.

A double seal of gasket and silicone and a rib-reinforced housing of ASA and aluminium protect the antenna in harsh indoor and outdoor environments (IP67, −40 to +85 °C, 5–95 % RH); it is not intended for acidic or alkaline atmospheres. Four M6 studs on the rear take an optional L-bracket for mounting on steel frames or poles, horizontal or vertical, with adjustable tilt.

Common Applications

- Access Control
- Vehicle Management
- Warehouse Management
- Personnel Tracking
- Logistics & Distribution
- Retail



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UHF | RAIN - Panel Antenna

TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna
Frequency Range	865–868 MHz (EU) 902–928 MHz (US)
Gain	9 dBic
Polarization	Circular
Beamwidth H / E	70° / 70°
VSWR	≤ 1.3:1
Impedance	50 ± 1 Ω
Connector	N female, rear

Part No. / Model

panAx9C-EU	865–868 MHz version
panAx9C-US	902–928 MHz version

Physical Characteristics

Dimensions	258 × 258 × 36 mm
Weight	0.91 kg (without bracket)
Housing	ASA engineering plastic, aluminium
Colour	Milk white
Mounting	4 × M6 studs, 36 mm square

Environmental

Protection Class	IP67
Operating Temperature	−40 to +85 °C
Storage Temperature	−40 to +85 °C
Relative Humidity	5–95 %