IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx9L

- 9 dBi gain, linear polarization
- 70° half-power beamwidth in both planes
- 902–928 MHz band, VSWR ≤ 1.3:1
- IP67 housing, −40 to +85 °C
- Rear N female connector, single port



UHF | RAIN - Panel Antenna
Linear polarization for aligned tags at long range

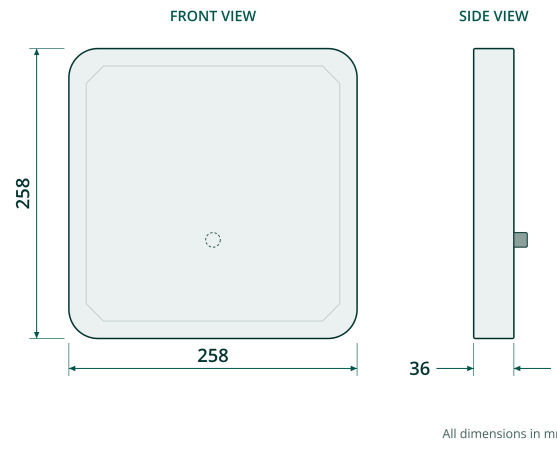
The CT panAx9L is a linearly polarized UHF | RAIN RFID far-field panel antenna for fixed readers. With 9 dBi gain and a 70° half-power beamwidth in both planes it reaches long read ranges wherever tags pass in a known orientation, such as on conveyors, pallets or vehicles. The 258 × 258 × 36 mm housing weighs 0.91 kg without bracket.

Aligned with the tags, a linear antenna avoids the 3 dB polarization loss of circular designs; tags turned by 90° to its polarization plane, however, are not read reliably. 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).

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. An optional L-bracket fixes to the rear with M6 screws; align the polarization plane with the tag orientation when mounting.

Common Applications

- Access Control
- Warehouse Management
- Logistics & Distribution
- Retail
- Conveyor Tracking
- Pallet Identification



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TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna
Frequency Range	902–928 MHz
Gain	> 9 dBi
Polarization	Linear
Beamwidth H / E	70° / 70°
VSWR	≤ 1.3:1
Impedance	50 ± 1 Ω
Connector	N female, rear

Part No. / Model

panAx9L-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	Optional L-bracket, M6 screws

Environmental

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