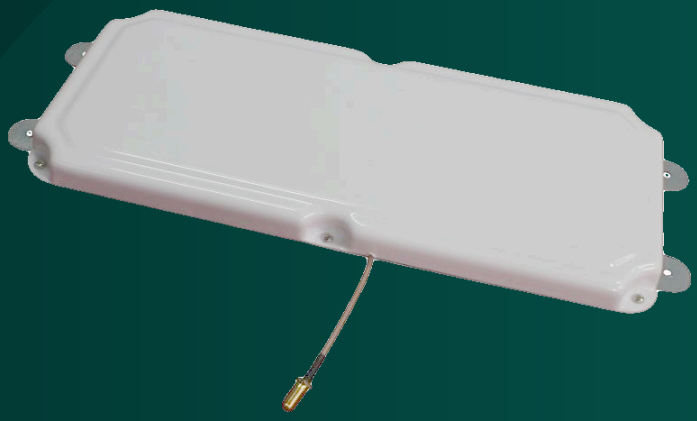
IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx8CNP



- > 8 dBic gain, circular polarization
- Narrow beam for defined read zones
- 902–928 MHz, axial ratio < 3 dB
- Slim 335 × 130 × 17.6 mm housing
- SMA female connector on pigtail

UHF | RAIN - Panel Antenna
Slim narrow-beam antenna for lanes and gates

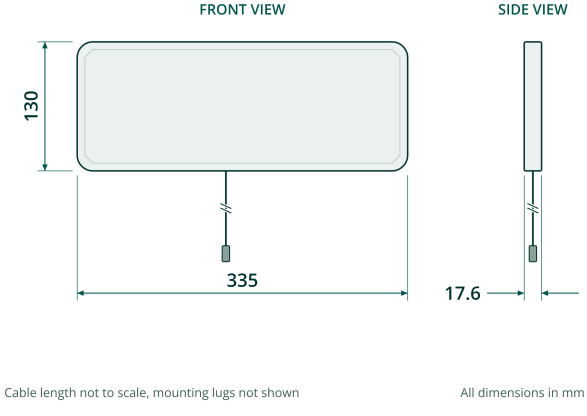
The CT panAx8CNP is a slim, circularly polarized UHF | RAIN RFID panel antenna with a narrow beam. With more than 8 dBic gain it concentrates the read zone, for example on a single lane or gate, and reduces reads in adjacent areas. The housing measures 335 × 130 × 17.6 mm.

Circular polarization keeps tag detection largely independent of tag rotation, and an axial ratio below 3 dB keeps it genuinely circular. The antenna covers 902–928 MHz with VSWR ≤ 1.3:1 and 50 Ω input impedance and suits any UHF | RAIN RFID reader (ISO/IEC 18000-63, EPC Gen2).

The RF feed is a pigtail with an SMA female connector that leaves the long side of the housing. The antenna is built from FR4, steel and ABS in silvery white and operates from −40 to +85 °C; four lugs at the short ends fix it to walls, frames or ceilings.

Common Applications

- Access Control
- Vehicle Management
- Lane & Gate Control
- Parking Systems
- Personnel Gates
- Conveyor Read Points



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UHF | RAIN - Panel Antenna

TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna, narrow beam
Frequency Range	902–928 MHz
Gain	> 8 dBic
Polarization	Circular
Axial Ratio	< 3 dB
VSWR	≤ 1.3:1
Impedance	50 Ω
Connector	SMA female, pigtail

Physical Characteristics

Dimensions	335 × 130 × 17.6 mm
Material	FR4, steel, ABS
Colour	Silvery white
Mounting	4 lugs at the short ends

Environmental

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

Part No. / Model

panAx8CNP-US	902–928 MHz version