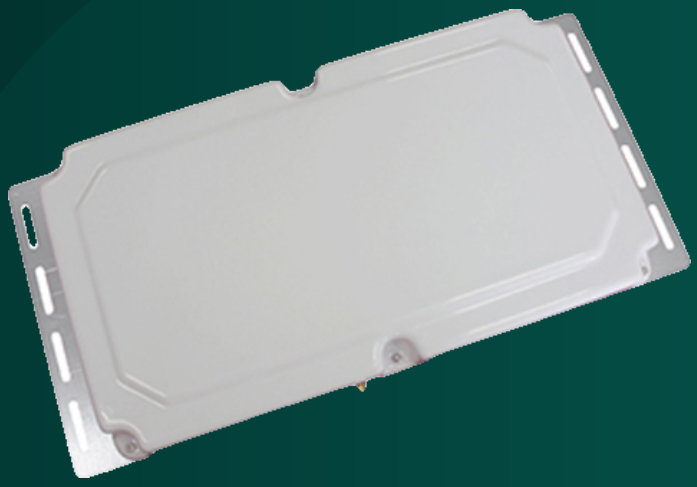
IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx10CS



- 10 dBic gain, circular polarization
- Narrow beam: 70° × 45° half-power width
- Wideband 860–960 MHz, axial ratio < 3 dB
- Side SMA female connector
- 460 × 220 × 35 mm, −40 to +85 °C

UHF | RAIN - Panel Antenna
10 dBic narrow beam for vehicle identification

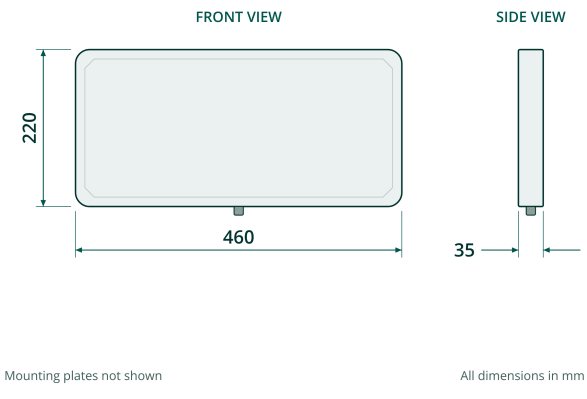
The CT panAx10CS is a high-gain, circularly polarized UHF | RAIN RFID panel antenna with a narrow beam. 10 dBic gain and a 70° × 45° beam concentrate the read zone for long-range applications such as vehicle identification at gates and barriers. The 460 × 220 × 35 mm housing weighs 2.5 kg.

Circular polarization with an axial ratio below 3 dB keeps tag detection largely independent of tag rotation. The wideband design covers 860–960 MHz, so one version serves the EU, US and other regional UHF bands, with VSWR ≤ 1.3:1 and 50 ± 1 Ω impedance for any UHF | RAIN RFID reader (ISO/IEC 18000-63, EPC Gen2).

The SMA female connector sits on the long side of the white ASA and aluminium housing; mounting plates at both ends fix the antenna to poles, masts or walls. The operating temperature range is −40 to +85 °C.

Common Applications

- Vehicle Management
- Fleet Management
- Access Control
- Personnel Management
- Asset Management
- Parking Access



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UHF | RAIN - Panel Antenna

TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna, narrow beam
Frequency Range	860–960 MHz
Gain	10 dBic
Polarization	Circular
Beamwidth	70° × 45°
Axial Ratio	< 3 dB
VSWR	≤ 1.3:1
Impedance	50 ± 1 Ω
Connector	SMA female, side

Physical Characteristics

Dimensions	460 × 220 × 35 mm
Weight	2.5 kg
Housing	ASA engineering plastic, aluminium
Colour	White
Mounting	Mounting plates at both ends

Environmental

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

Part No. / Model

panAx10CS-WB	860–960 MHz, all regions