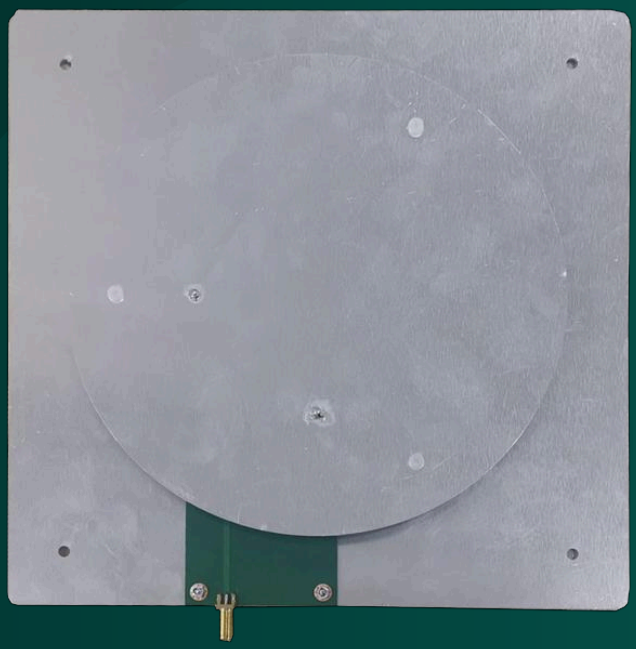
IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx9CBS



- ≥ 9 dBic gain, circular polarization
- 65° half-power beamwidth in both planes
- Wideband 860–960 MHz for all regions
- Open design, 20.2 mm deep, 0.3 kg
- SMA female connector on the bottom edge

UHF | RAIN - Panel Antenna
Open 9 dBic panel for integration in enclosures

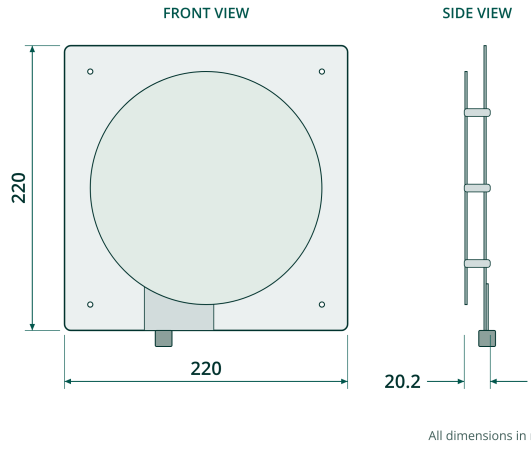
The CT panAx9CBS is a circularly polarized UHF | RAIN RFID far-field panel antenna in open design: a circular radiator is mounted on spacers above an aluminium ground plate, without radome. It provides at least 9 dBic gain with a 65° half-power beamwidth in both planes. The 220 × 220 mm plate is only 20.2 mm deep and weighs 0.3 kg.

Circular polarization keeps tag detection largely independent of how a tag is rotated in front of the antenna. 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 Ω impedance for any UHF | RAIN RFID reader (ISO/IEC 18000-63, EPC Gen2).

The SMA female connector sits on the bottom edge of the ground plate. Without a radome, the antenna suits protected installation, for example in cabinets, housings or behind non-metallic covers; four Ø 4 mm holes (180 mm square) fix it in place. The operating temperature range is −40 to +85 °C.

Common Applications

- Access Control
- Warehousing
- Logistics
- Retail
- Smart Cabinets
- Self-Service Terminals



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UHF | RAIN - Panel Antenna

TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna, open design
Frequency Range	860–960 MHz
Gain	≥ 9 dBic
Polarization	Circular
Beamwidth H / E	65° / 65°
VSWR	≤ 1.3:1
Impedance	50 Ω
Connector	SMA female, bottom edge

Part No. / Model

panAx9CBS-WB	860–960 MHz, all regions

Physical Characteristics

Dimensions	220 × 220 × 20.2 mm
Height incl. Connector	232.5 mm
Weight	0.3 kg
Material	Aluminium, PTFE laminate
Colour	Silver
Mounting	4 × Ø 4 mm holes, 180 mm square

Environmental

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