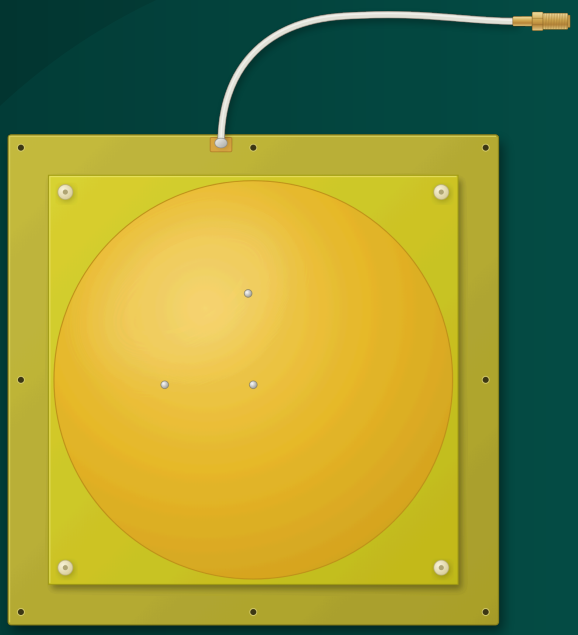
IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx8CBP



- 8 dBic gain, circular polarization
- 75° half-power beamwidth in both planes
- Wideband 860–960 MHz for all regions
- Open design, 17.6 mm deep, only 120 g
- SMA female connector on pigtail

UHF | RAIN - Panel Antenna
Light open panel for smart cabinets and shelves

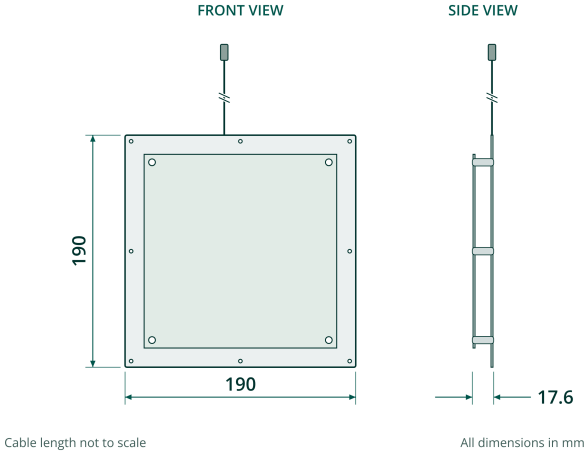
The CT panAx8CBP is a circularly polarized UHF | RAIN RFID far-field panel antenna in open design: a circular radiator on an upper board is mounted on spacers above a 190 × 190 mm base board, without radome. It provides 8 dBic gain with a 75° half-power beamwidth in both planes, at only 17.6 mm depth and 120 g.

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 RF feed is a pigtail with an SMA female connector. Without a radome, the lightweight antenna suits protected installation, for example in unmanned retail cabinets, smart shelves or archive systems; eight holes in the base board fix it in place. The operating temperature range is −40 to +80 °C.

Common Applications

- Unmanned Retail Cabinets
- Library & Archives
- Warehousing
- Smart Cabinets
- Smart Shelves
- Asset Management



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TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna, open design
Frequency Range	860–960 MHz
Gain	8 dBic
Polarization	Circular
Beamwidth H / E	75° / 75°
VSWR	≤ 1.3:1
Impedance	50 Ω
Connector	SMA female, pigtail

Physical Characteristics

Dimensions	190 × 190 × 17.6 mm
Weight	120 g
Mounting	8 holes in the base board

Environmental

Operating Temperature	−40 to +80 °C
Storage Temperature	−40 to +80 °C
Relative Humidity	5–95 %

Part No. / Model

panAx8CBP-WB	860–960 MHz, all regions