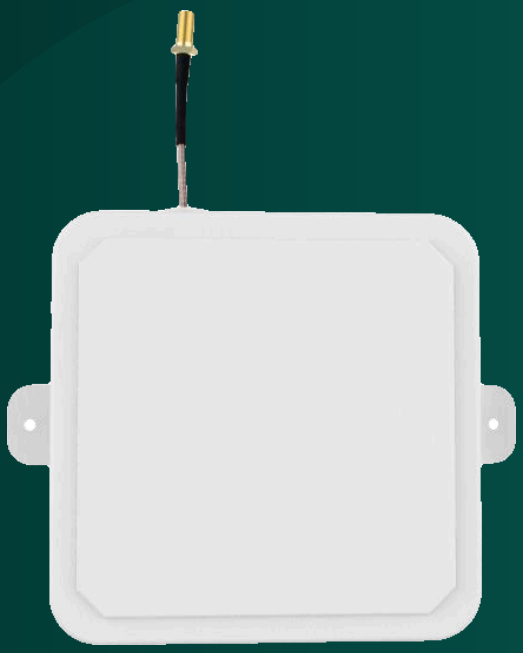
IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx5CP

- 5.5 dBic gain, circular polarization
- 105° half-power beamwidth in both planes
- Wideband 840–960 MHz for all regions
- SMA female on short pigtail, side exit
- Compact 129 × 129 × 22 mm, 0.3 kg



UHF | RAIN - Panel Antenna
Wide 105° beam for compact indoor read points

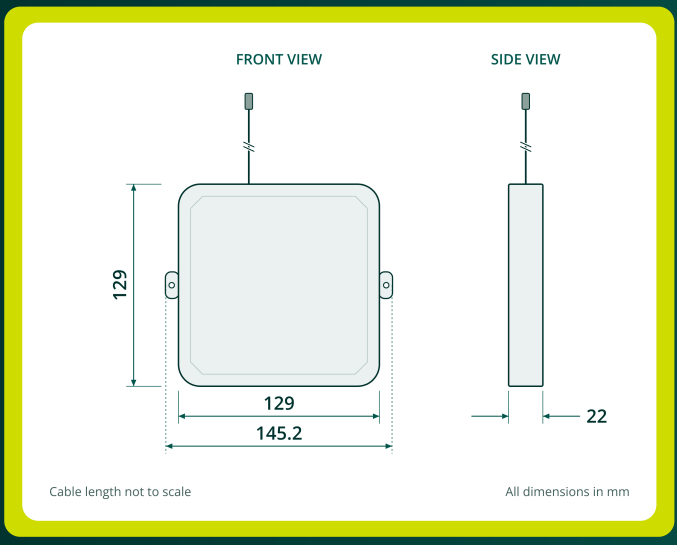
The CT panAx5CP is a compact, circularly polarized UHF | RAIN RFID panel antenna for indoor read points. It provides more than 5.5 dBic gain with a wide 105° half-power beamwidth in both planes, which covers a broad field at short range. The 129 × 129 × 22 mm housing weighs 0.3 kg without bracket.

Circular polarization keeps tag detection largely independent of how a tag is rotated in front of the antenna. The wideband design covers 840–960 MHz, so one version serves the EU, US and other regional UHF bands, with VSWR ≤ 1.3:1 and 50 Ω input impedance for any UHF | RAIN RFID reader (ISO/IEC 18000-63, EPC Gen2).

The RF feed is a short pigtail with an SMA female connector (external thread) that leaves the housing at the side. The rib-reinforced housing of ASA and stainless steel is rated IP53 for indoor use from −40 to +85 °C; two mounting lugs with Ø 3.5 mm holes fix it to walls, shelves or furniture.

Common Applications

- Access Control
- Retail Point of Sale
- Warehousing
- Logistics
- Workstation Read Points
- Smart Shelves



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UHF | RAIN - Panel Antenna

TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna
Frequency Range	840–960 MHz
Gain	> 5.5 dBic
Polarization	Circular
Beamwidth H / E	105° / 105°
VSWR	≤ 1.3:1
Impedance	50 Ω
Connector	SMA female, pigtail, side exit

Part No. / Model

panAx5CP-WB	840–960 MHz, all regions

Physical Characteristics

Dimensions	129 × 129 × 22 mm
Width incl. Lugs	145.2 mm
Weight	0.3 kg (without bracket)
Housing	ASA engineering plastic, stainless steel
Colour	Milky white
Mounting	2 lugs, Ø 3.5 mm holes

Environmental

Protection Class	IP53
Operating Temperature	−40 to +85 °C
Storage Temperature	−40 to +85 °C
Relative Humidity	5–95 %