IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx8CNS



- 8.5 dBic gain, circular polarization
- Narrow 50° × 50° beam
- Wideband 860–960 MHz, VSWR ≤ 1.3:1
- Side RP-TNC connector, 200 × 200 mm
- IP54, −40 to +85 °C

UHF | RAIN - Panel Antenna
Narrow-beam panel for precise read zones

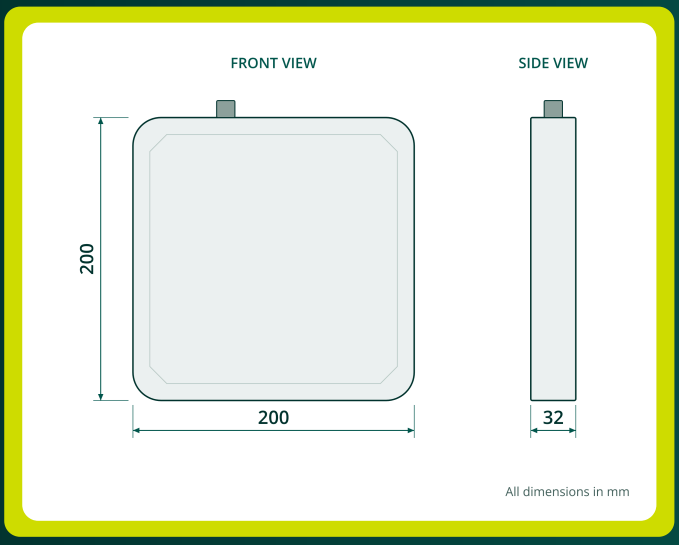
The CT panAx8CNS is a circularly polarized UHF | RAIN RFID panel antenna with a narrow beam. More than 8.5 dBic gain and a 50° × 50° beam confine the read zone, for example to one conveyor or dock door, and reduce reads in neighbouring areas. The 200 × 200 × 32 mm housing weighs 0.6 kg without bracket.

Circular polarization keeps tag detection largely independent of how a tag is rotated in front of the antenna. The wideband design covers 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 double-sealed aluminium-alloy and ASA housing is designed for impact and vibration resistance and rated IP54, operating from −40 to +85 °C (not for acidic or alkaline atmospheres). The RP-TNC female connector sits on the side; four M4 threaded holes on the rear take an optional bracket for steel frames or poles.

Common Applications

- Conveyor Lines
- Dock Doors
- Access Control
- Warehousing
- Logistics
- Retail



IDCRAFT
RFID & NFC EXPERTS

CT - panAx8CNS

UHF | RAIN - Panel Antenna

TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna, narrow beam
Frequency Range	860–960 MHz
Gain	> 8.5 dBic
Polarization	Circular
Beamwidth	50° × 50°
VSWR	≤ 1.3:1
Impedance	50 ± 1 Ω
Connector	RP-TNC female, side

Part No. / Model

panAx8CNS-WB	860–960 MHz, all regions

Physical Characteristics

Dimensions	200 × 200 × 32 mm
Weight	0.6 kg (without bracket)
Housing	Aluminium alloy, ASA engineering plastic
Colour	Milk white
Mounting	4 × M4 threaded holes, 51.9 mm square

Environmental

Protection Class	IP54
Operating Temperature	−40 to +85 °C
Storage Temperature	−40 to +85 °C
Relative Humidity	5–95 %