IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx8CS



- 8.5 dBic gain, right-hand circular (RHCP)
- Wideband 860–960 MHz for all regions
- Axial ratio < 3 dB, F/B ratio ≥ 15 dB
- Side RP-TNC connector for flat mounting
- IP65 housing, −40 to +85 °C

UHF | RAIN - Panel Antenna
Wideband side-fed panel for flat installation

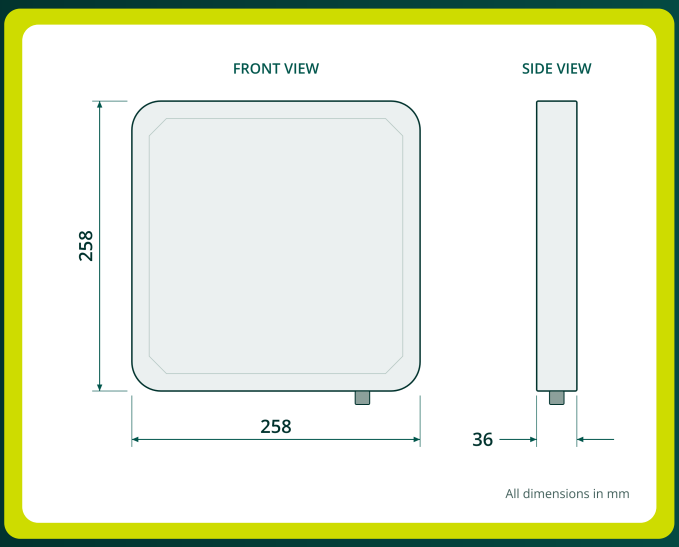
The CT panAx8CS is a right-hand circularly polarized UHF | RAIN RFID far-field panel antenna with side feed. It delivers 8.5 dBic gain, and an axial ratio below 3 dB keeps the polarization genuinely circular, so tags are read largely independent of their rotation. The low-profile 258 × 258 × 36 mm housing weighs 0.8 kg.

A front-to-back ratio of at least 15 dB concentrates the read zone in front of the antenna and suppresses reads behind it. 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 RP-TNC female connector sits on the side of the housing, so no clearance is needed behind the antenna for connector and cable bend. The UV-resistant ASA and aluminium housing is rated IP65 for indoor and outdoor operation from −40 to +85 °C (not for acidic or alkaline atmospheres). It is fixed with adhesive tape or a customer-specific bracket on four M4 threaded holes; no bracket is included.

Common Applications

- Parking Management
- Warehouse Logistics
- Conveyor Lines
- Archive Management
- Asset Management
- Airport Logistics



IDCRAFT
RFID & NFC EXPERTS

CT - panAx8CS

UHF | RAIN - Panel Antenna

TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna, side feed
Frequency Range	860–960 MHz
Gain	8.5 dBic
Polarization	Circular, right-hand (RHCP)
Axial Ratio	< 3 dB
Front-to-Back Ratio	≥ 15 dB
VSWR	≤ 1.3:1
Impedance	50 ± 1 Ω
Connector	RP-TNC female, side

Physical Characteristics

Dimensions	258 × 258 × 36 mm
Weight	0.8 kg
Housing	ASA engineering plastic, aluminium
Colour	Milk white
Mounting	4 × M4 threaded holes, 36 mm square

Environmental

Protection Class	IP65
Operating Temperature	−40 to +85 °C
Storage Temperature	−40 to +85 °C

Part No. / Model

panAx8CS-WB	860–960 MHz, all regions