IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Panel Antenna
CT - panAx12LS



- 12 dBi gain, linear polarization
- Beamwidth 30° / 75°
- EU (865–868 MHz) or US (902–928 MHz)
- N female connector on the long side
- 582 × 202 × 55.5 mm, −40 to +85 °C

UHF | RAIN - Panel Antenna
12 dBi linear antenna for long-range lanes

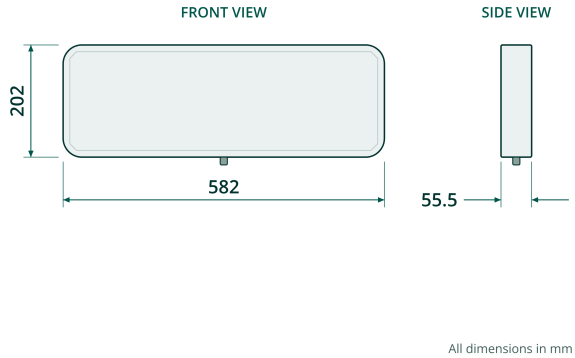
The CT panAx12LS is a high-gain, linearly polarized UHF | RAIN RFID panel antenna. 12 dBi gain and a 30° / 75° beam produce a long, narrow read zone, for example for vehicle lanes, gates and long-range identification. The 582 × 202 × 55.5 mm housing weighs 2.5 kg.

Linear polarization delivers maximum range for tags aligned with the antenna; tags rotated by 90° to the polarization plane are not read reliably. Two band versions are available: 865–868 MHz for Europe and 902–928 MHz for North America, each with VSWR ≤ 1.3:1, for any UHF | RAIN RFID reader (ISO/IEC 18000-63, EPC Gen2).

The rib-reinforced ASA and aluminium housing operates from −40 to +85 °C. The N female connector sits on the long side; four M8 studs (90 mm square) on the rear take a bracket for pole mounting.

Common Applications

- Vehicle Identification
- Entrance Control
- Warehouse Management
- Logistics
- Parking Access
- Long-Range Identification



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TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Far-field panel antenna
Frequency Range	865–868 MHz (EU) 902–928 MHz (US)
Gain	12 dBi
Polarization	Linear
Beamwidth	30° / 75°
VSWR	≤ 1.3:1
Connector	N female, side

Part No. / Model

panAx12LS-EU	865–868 MHz version
panAx12LS-US	902–928 MHz version

Physical Characteristics

Dimensions	582 × 202 × 55.5 mm
Weight	2.5 kg
Housing	ASA engineering plastic, aluminium
Mounting	4 × M8 studs, 90 mm square

Environmental

Operating Temperature	−40 to +85 °C
Storage Temperature	−40 to +85 °C