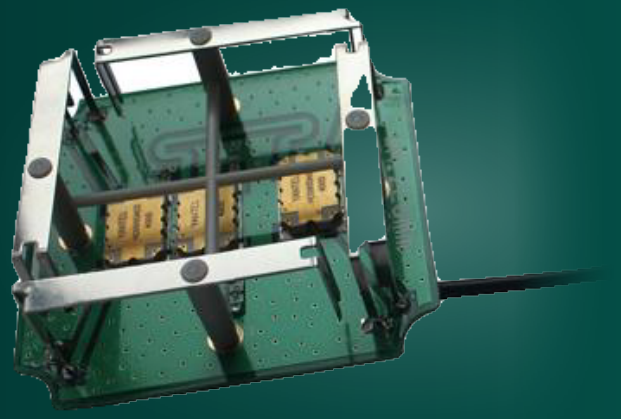
IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Embedded Antenna
CT - modAx6161P



- 3 dBic gain, circular polarization
- Wideband 860–960 MHz, axial ratio < 3 dB
- 61 × 61 mm footprint for embedded designs
- Coax lead with SMA, U.FL/IPX type optional
- VSWR ≤ 1.3:1, 50 Ω impedance

UHF | RAIN - Embedded Antenna
Compact circular antenna for handheld readers

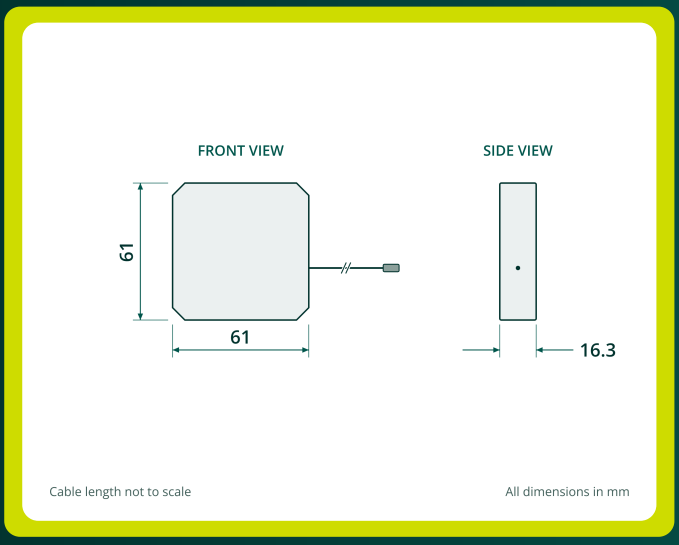
The CT modAx6161P is a compact UHF | RAIN RFID antenna for integration into handheld readers, terminals and other devices. A stainless-steel radiator above a 61 × 61 mm FR4 board produces circular polarization with more than 3 dBic gain; the assembly is 16.3 mm high.

The wideband design covers 860–960 MHz with an axial ratio below 3 dB, VSWR ≤ 1.3:1 and 50 ± 1 Ω impedance, so one version serves the EU, US and other regional UHF bands. It suits UHF | RAIN RFID reader modules to ISO/IEC 18000-63 / EPC Gen2.

As a passive component without housing, the antenna needs no power supply and is mounted inside the end device. It is fed via a coaxial lead with SMA connector; a U.FL/IPX-type micro-coax connector is available on request. The operating temperature range is −40 to +85 °C.

Common Applications

- Handheld Readers
- Mobile Data Terminals
- Embedded Reader Modules
- Desktop Readers
- Self-Service Kiosks
- Smart Cabinets



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UHF | RAIN - Embedded Antenna

TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Embedded antenna, no housing
Frequency Range	860–960 MHz
Gain	> 3 dBic
Polarization	Circular
Axial Ratio	< 3 dB
VSWR	≤ 1.3:1
Impedance	50 ± 1 Ω
Connector	SMA on coax lead, U.FL/IPX type optional

Physical Characteristics

Dimensions	61 × 61 × 16.3 mm
Material	FR4, stainless steel
Colour	Green (PCB)

Environmental

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

Part No. / Model

modAx6161P-WB	860–960 MHz, all regions