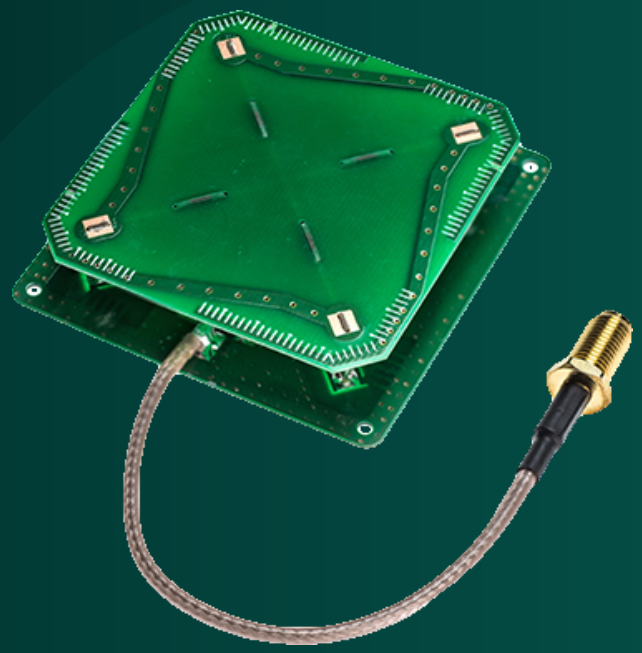
IDCRAFT
RFID & NFC EXPERTS

UHF | RAIN - Embedded Antenna
CT - modAx6060P



- 3 dBic gain, circular polarization
- 120° beamwidth for short-range reading
- EU band 865–868 MHz, VSWR ≤ 1.3:1
- 60 × 60 mm FR4 assembly, 25 g
- SMA connector, MMCX optional

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

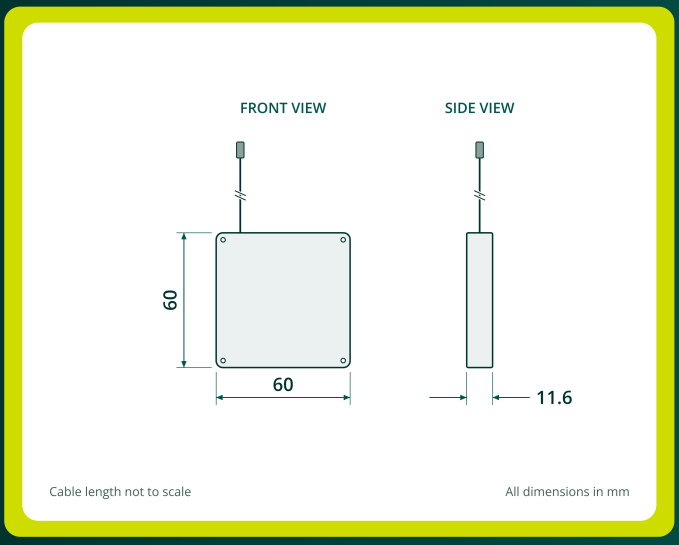
The CT modAx6060P is a compact UHF | RAIN RFID patch antenna for integration into handheld readers and portable terminals. Built from stacked FR4 boards on a 60 × 60 mm footprint, it weighs 25 g and provides circular polarization with more than 3 dBic gain.

A wide 120° × 120° beam suits short-range reading from a handheld device. The antenna is tuned to the European band 865–868 MHz with VSWR ≤ 1.3:1 and 50 Ω impedance and works with UHF | RAIN RFID reader modules to ISO/IEC 18000-63 / EPC Gen2.

As a passive component without housing, it needs no power supply and is mounted inside the end device via four Ø 2.0 mm holes (53.8 mm square). The RF feed is a coaxial lead with SMA connector, MMCX on request; the operating temperature range is −40 to +85 °C.

Common Applications

- Handheld Readers
- Portable Terminals
- Embedded Reader Modules
- Smart Devices
- Desktop Encoders
- Self-Service Kiosks



www.idcraft.com sales@idcraft.com +49.6236.4494.685

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UHF | RAIN - Embedded Antenna

TECHNICAL SPECIFICATIONS

RF Characteristics

Antenna Type	Embedded patch antenna, no housing
Frequency Range	865–868 MHz
Gain	> 3 dBic
Polarization	Circular
Beamwidth	120° × 120°
VSWR	≤ 1.3:1
Impedance	50 Ω
Connector	SMA on coax lead, MMCX optional

Physical Characteristics

Dimensions	60 × 60 × 11.6 mm
Weight	25 g
Material	FR4
Mounting	4 × Ø 2.0 mm holes, 53.8 mm square

Environmental

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

Part No. / Model

modAx6060P-EU	865–868 MHz version