



# RFID Antennas

## High-quality solutions for demanding applications

Linxens RFID Antennas are suitable for various applications ranging from consumer product authentication, to harsh environment asset tracking, up to wearable devices with mobile payment.

Backed by proven high-quality manufacturing standards, Linxens produces around 800 million of RFID antennas per year for worldwide use.

This clearly demonstrates our strong expertise in the design of antennas and optimization of radio frequency performance, taking into account all environment constraints.

We bring added value to our miniaturized antennas complying with high standards of quality requirements.

### Features and benefits

- Custom size and design (etched copper antenna)
- Compatible with gold and copper wire-bonding and flip-chip packaging
- Double-sided plated through holes antenna for high reliability
- Available in reel-to-reel format, up to 150 mm roll width
- RoHS 2002/95/EC; Halogen free
- High temperature resistant, long life cycle
- Fast prototyping services: Design, optimize and develop prototypes within 1 week
- Reel-to-reel format adapted to high volumes
- Facilities to test and measure ISO 10373, EMVCo 2.0

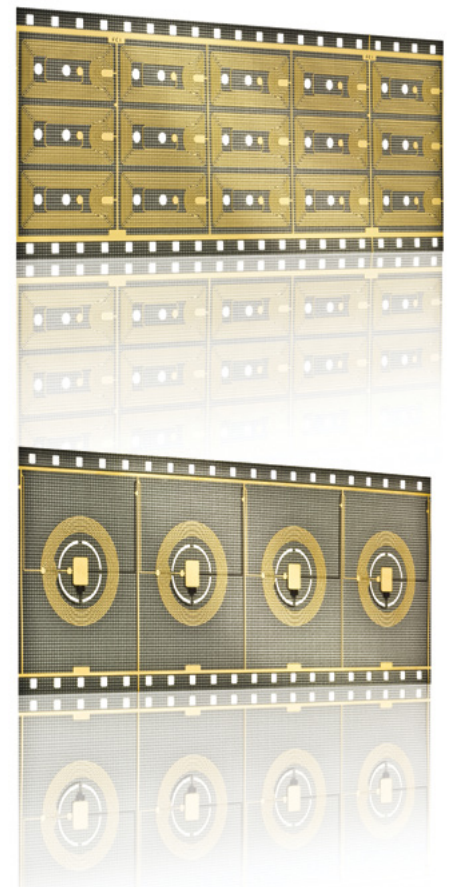
### Specifications

Linxens features single-sided and double-sided antenna for various RFID applications:

- Flexible dielectric base material:
  - Epoxy Glass (typical 75 and 110  $\mu\text{m}$ )
  - Polyimide (typical 50 and 75  $\mu\text{m}$ )
  - Ferrite
  - PET
- Copper 18, 35 or 70  $\mu\text{m}$
- Track/space down to 50/50  $\mu\text{m}$
- Surface finishing: Electro-plated Nickel/Gold OSP
- Automatic optical inspection
- Temperature resistance
  - Discontinuous service: 3 minutes at 260° C
  - Continuous service: 24 hours at 160°



SPECIALTY



### Application Area

#### Asset Tracking and Authentication for:

- Industry (e.g. aeronautical and automotive parts)
- Medical (e.g. hospital and surgical instruments tracking)
- Laundromat (e.g. professional textile tracking)
- Luxury goods (e.g. brand protection and anti-counterfeiting solution)