

## **Antenna description**

**ID ISC.LRU3500 / ID ISC.LRU3000**

## UHF RFID Antennas

ID ISC.ANT.U170/170-FCC  
ID ISC.ANT.U270/270-FCC  
ID ISC.ANT.U600/270-FCC



### FEATURES

- ID ISC.ANT.U600/270-FCC:  
30° Beam width
- ID ISC.ANT.U170/170-FCC:  
very small and light shape
- New design
- Circular polarization for  
optimal reading performance
- Optimized for operation in  
North America
- IP 65 for outdoor use





## UHF RFID Antennas

### Order description:

ID ISC.ANT.U170/170-FCC  
ID ISC.ANT.U270/270-FCC  
ID ISC.ANT.U600/270-FCC

	ID ISC.ANT.U170/170-FCC	ID ISC.ANT.U270/270-FCC	ID ISC.ANT.U600/270-FCC
Dimensions	170 x 170 x 25 mm	270 x 270 x 57 mm	590 x 270 x 57 mm
Housing	ASA-ABS	ASA-ABS	ASA-ABS
Color	White	White	White
Weight	270 g	1.210 g	2.200 g
Protection class	IP65	IP65	IP65
Operating frequency	902-928 MHz	900-930 MHz	900-930 MHz
Gain	3.5 dBic	8.7 dBic	10.5 dBic
3 dB beam width	85° x 85°	65° x 65°	30° x 65°
Polarization	circular	circular	circular
Antenna connection	SMA socket (50 Ohm)	SMA socket (50 Ohm)	SMA socket (50 Ohm)
Temperature range			
Operation	- 25°C up to 55° C	- 25°C up to 55° C	- 25°C up to 55° C
Storage	- 25°C up to 80° C	- 25°C up to 80° C	- 25°C up to 80° C

### Available accessories:

Antenna cables ID ISC.ANT.C2-A  
ID ISC.ANT.C6-A

Mounting sets ID ISC.ANT.U170/170-MS  
ID ISC.ANT.U270/270-MS  
ID ISC.ANT.U600/270-MS

Antennas are compatible with any current UHF Reader system.



FEIG ELECTRONIC reserves the right to change specification without notice at any time.  
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## UHF RFID Antenna ID ISC.ANT.U250/250-EU/FCC



### FEATURES

- Best performances in each frequency range by specifically optimized EU- and FCC antenna
- Two antenna cables available (2m and 6m)
- Mounting set for easy installation available





## UHF RFID Antenna ID ISC.ANT.U250/250-EU-FCC

### SHORT DESCRIPTION

#### Order descriptions:

**ID ISC.ANT.U250/250-EU Antenna UHF**  
**ID ISC.ANT.U250/250-FCC Antenna UHF**

The UHF antennas ID ISC.ANT.U250/250-EU-FCC are circular polarized antennas for operating frequencies in the UHF ranges 865-868 MHz (EU antenna) and 902-928 MHz (FCC antenna).

So the antennas can be used for applications within both released UHF ranges in Europe (865-868 MHz) as well as in North America (902-928 MHz).

Due to an integrated multiplexer, the long range readers of the OBID *i-scan*<sup>®</sup> UHF family can be connected with up to four UHF antennas.

Due to the antennas' circular polarization, transponders can be identified in two different orientations .

#### Available accessories:

**ID ISC.ANT.C2-A, 2m Antenna cable**  
**ID ISC.ANT.C6-A, 6m Antenna cable**

**ID ISC.MS.ANT.U250/250 Mounting set**



### TECHNICAL DATA

Dimensions (W x H x D)	260 x 260 x 56 mm 10.24 x 10.24 x 2.2 inch
Housing	Plastic
Color	Papyrus white (similar RAL9018)
Weight	approx. 1.050 g
Protection class	IP 54
Operating frequency	
EU Antenna	865-868 MHz
FCC Antenna	902-928 MHz
Gain	
EU Antenna	9,0 dBic
FCC Antenna	8,7 dBic
3 dB beam width	65° x 65°
Polarization	circular
VSWR	< 1,5 : 1
Antenna connection	SWA socket (50 Ohm)
Temperature range	
Operation	-25 °C up to 55 °C
Storage	-25 °C up to 85 °C

#### Information about the mounting set ID ISC.MS.ANT.U250/250

Maximum clamping range	30 – 60 mm
Material	Aluminium, steel-galvanized
Weight	380 g
Orientation	Changeable in three directions

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Last update: August 2009