

UHF ANTENNA

MR A1313



PRODUCT DESCRIPTION

iDTRONIC's cost-effective Mid-Range UHF Antenna MR A1313 is a high-performance device which can be used in combination with our RFID UHF Readers and Embedded Modules.

Equipped with a low profile, the MR A1313 offers a compact footprint of only 130 mm squared in a very smart-looking design.

With an antenna gain at 5.5 dBi and strong anti-collision attributes, the MR A1313 achieves mid-range reading of up to 4 meters. Through its circular polarized setting, the user will be able to read out the tags in multiple 3D orientations.

Being rated IP65, the MR A1313 can be used for permanent outdoor applications. As well as being durable, its timeless design blends in well with most interiors and makes the this antenna very suitable for customer-facing environments.

► APPLICATIONS

- Industrial Application
- Supply Chain
- Asset Tracking
- Access Control

► FEATURES

- Small dimensions
- Up to 4 m Reading Range
- Circular polarized
- Easy to integrate with UHF Mid-Range-Reader

► RFID OPTIONS

- 864 – 868 MHz (ETSI)
- 902 – 928 MHz (FCC)

TECHNICAL DATA

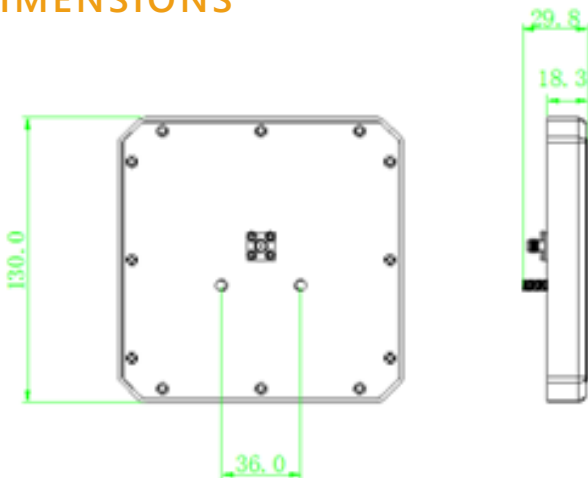
ELECTRICAL SPECIFICATIONS	
Frequency Range	864 – 869 MHz (EU) 902 – 928 MHz (US)
Polarization	RHCP (Right Hand Circular Polarized)
Operating Distance	up to 4 m*
Connector Type	SMA female side connector
Antenna Gain	5.5 dBiC typical
Beam width	Horizontal: 85° ±5 / Vertical: 108° ±10
VSWR	1.3 typical
Front to back	≥8 dB
Axial Ratio	≤2.5 dB typical
Nominal Impedance	50 Ω
Anti-static protection	DC Grounded
Maximum Input Power	3 W

MECHANICAL ENVIRONMENTAL SPECIFICATIONS	
Dimensions	130 × 130 × 18 mm
Weight	0.21 kg
Housing-Material	UV-Resistant White ABS
Environmental Rating	IP65
Operating & Storage Temperature	-20 ° to +65 °C
Mounting	L-shaped pole mounting bracket
Humidity	5% to 95%

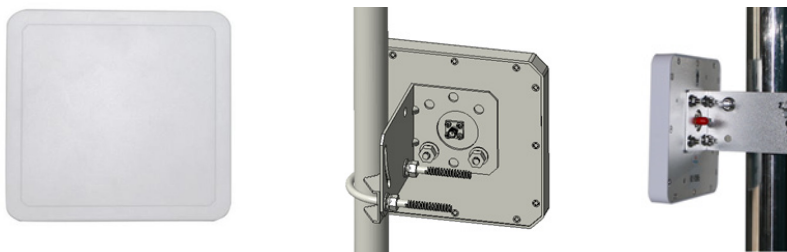
SUPPORTED TRANSPONDERS

Standard ISO 18000-6C (EPC Class 1 Generation 2)
E.g.: Alien Higgs 2/3/4, Impinj Monza, NXP UCODE, etc.

DIMENSIONS



PRODUCT PICTURES



ORDER CODE

VERSION	ORDER CODE
MR A1313 UHF Antenna - ETSI	R-IN-UHF-A1313
MR A1313 UHF Antenna - FCC	R-IN-UHF-A1313-FCC

APPLICATION EXAMPLES

WAREHOUSING

The MR A1313 can be deployed on different warehouse shelves and environments. With its superb aesthetics and compact design, the MR A1313 antenna integrates into a wide range of warehouse setups across diverse industries.



RETAIL MANAGEMENT

The antenna can easily be deployed in space constrained environments such as retail. With its compact design, the antenna blends well into the retail back drop.

The MR A1313 antenna sends a signal to the controller's computer when the retail items / containers enter or leave the shop floor. The management can react quickly and have an overview of the movement of merchandise.



MEDICAL & PHARMACEUTICAL

The antenna can operate at low-temperature extremes. High-value pharmaceutical assets can be tracked in fridges and freezers using the antenna. The slim design maximizes the usable space inside of a refrigerator. The antenna can handle general purpose cleaning agents and is water resistant. The white colored antenna antenna is suitable for hospitals, medical laboratories, research industries and pharma labs.

