

UHF ANTENNA

LR A2222

PRODUCT DESCRIPTION

iDTRONIC's cost-effective Long-Range UHF Antenna LR A2222 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 LR A2222 offers a compact footprint of only 220 mm squared in a very smart-looking design.

With an antenna gain at 8 dBi and strong anti-collision attributes, the LR A2222 achieves long-range reading of up to 8 meters. Through its circular polarized setting, the user will be able to read out the tags in multiple 3D orientations.

Being rated IP67, the LR A2222 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.

The LR A2222 can be easily implemented into harsh environments for applications such as warehousing, logistics, asset tracking, unmanned retail and smart containers.



► APPLICATIONS

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

► FEATURES

- Small dimensions
- Up to 8 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

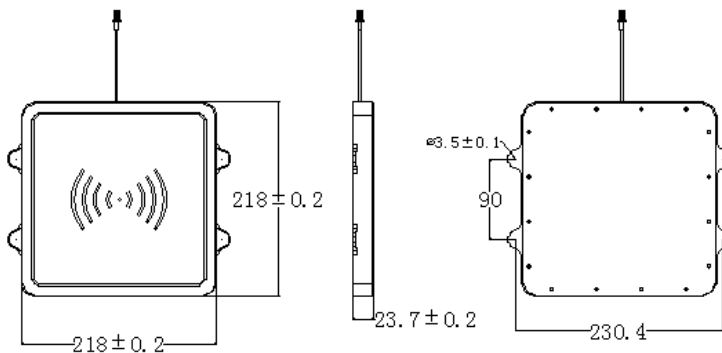
ELECTRICAL SPECIFICATIONS	
Frequency Range	864 – 869 MHz (EU) 902 – 928 MHz (US)
Polarization	RHCP (Right Hand Circular Polarized)
Operating Distance	up to 8 m*
Connector Type	SMA female side connector
Antenna Gain	≥8 dBiC typical
Beam width	70° in both planes
VSWR	≤1.5 typical
Axial Ratio	≤3 dB typical
Nominal Impedance	50 Ω
Anti-static protection	DC Grounded
Maximum Input Power	3 W

MECHANICAL ENVIRONMENTAL SPECIFICATIONS	
Dimensions	218 × 218 × 23.8 mm
Weight	0.40 kg
Housing-Material	UV-Resistant White ABS
Environmental Rating	IP67
Operating & Storage Temperature	-40 ° to +85 °C
Mounting	There are two mounting holes on each side of the antenna (self-tapping screw mounting)
Humidity	5% to 95%

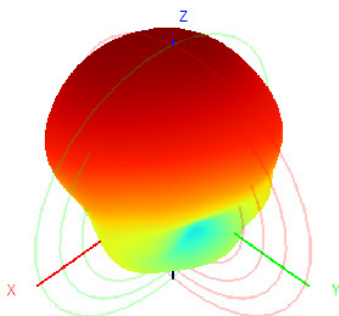
SUPPORTED TRANSPONDERS

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

DIMENSIONS



3D E-FIELD



ORDER CODE

VERSION	ORDER CODE
LR A2222 UHF Antenna - ETSI	R-IN-UHF-A2222
LR A2222 UHF Antenna - FCC	R-IN-UHF-A2222-FCC

APPLICATION EXAMPLES

WAREHOUSING

The LR A2222 can be deployed on different warehouse shelves and environments. With its superb aesthetics and compact design, the LR A2222 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 LR A2222 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.

