

## UHF ANTENNA

# LR A3314



### PRODUCT DESCRIPTION

iDTRONIC's cost-effective Long-Range UHF Antenna LR A3314 is a high-performance device which can be used in combination with our RFID UHF Readers and Embedded Modules.

Equipped with a low profile and narrow-beam design, the LR A3314 offers unique dimensions (335x134mm) and smart-looking design.

With an antenna gain at 8 dBi and strong anti-collision attributes, the LR A3314 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 A3314 can be used for permanent indoor or 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 A3314 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

- Narrow-Beam Design
- 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

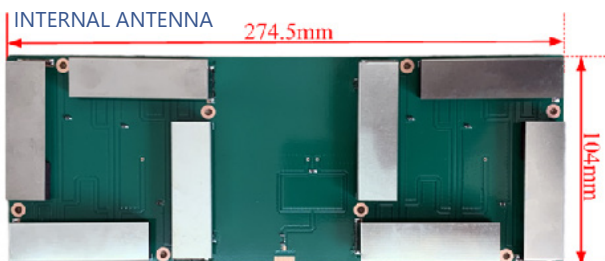
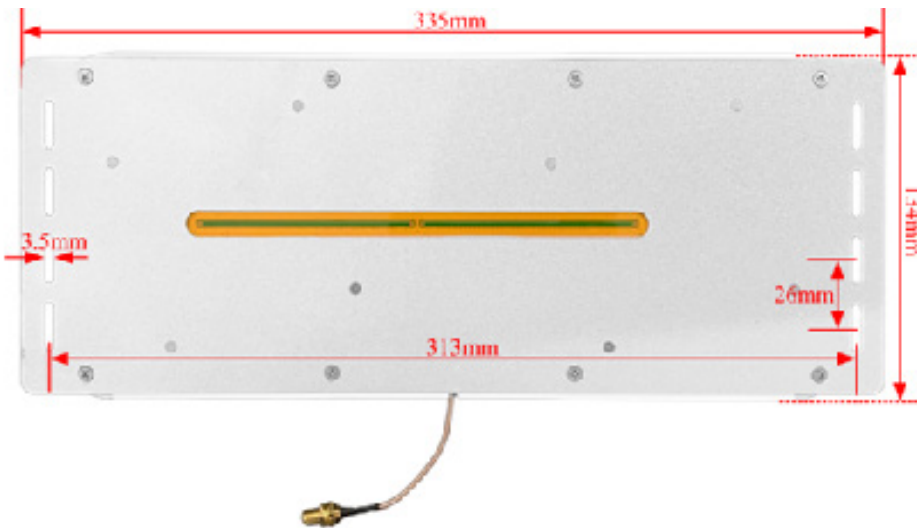
ELECTRICAL SPECIFICATIONS	
Frequency Range	864 – 869 MHz (EU)   902 – 928 MHz (US)
Polarization	RHCP (Right Hand Circular Polarized)
Operating Distance	up to 8 m*
Connector Type	SMA female side connector
Antenna Gain	≥8 dBiC typical
Beam width	Horizontal: 40° / Vertical: 86°
VSWR	≤1.5 typical
Axial Ratio	≤3 dB typical
Nominal Impedance	50 Ω
Anti-static protection	DC Grounded
Maximum Input Power	3 W

MECHANICAL   ENVIRONMENTAL SPECIFICATIONS	
Dimensions	335 × 134 × 17.5 mm
Weight	0.45 kg
Housing-Material	F4BTM high frequency sheet, aluminum, ABS
Environmental Rating	IP67
Operating & Storage Temperature	-40 ° to +85 °C
Mounting	Installation through hanging holes on both sides
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



## ORDER CODE

VERSION	ORDER CODE
LR A3314 UHF Antenna - ETSI	R-IN-UHF-A3314
LR A3314 UHF Antenna - FCC	R-IN-UHF-A3314-FCC

## APPLICATION EXAMPLES

### ACCESS CONTROL

Using RFID tags on name badges, wristbands or key fobs allows organizations to track personnel or visitors when entering an area equipped with iDTRONIC's LR A3314 Antenna. This allows for authorized access when entering a specific area, increased security measures or optimized statistical analysis.



### 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 A3314 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.

