

## UHF ANTENNA SHELF A7030C



### PRODUCT DESCRIPTION

iDTRONIC's slim-design shelving antenna „SHELF A7030C“ boasts an innovative 'Array-Ability' design and offers a highly scalable and customised antenna solution for a wide range of RFID deployments.

At just 8.5 mm / 0.3 in. thick, the SHELF A7030C combines ultra-low profile and intelligent scalable design, with the performance of a circularly polarized UHF antenna. With a highly durable ABS radome and flexible easy mounting options, including the use of innovative 'Array-Ability' feet, the SHELF A7030C is ideal for existing shelving systems or embedding into smart cabinet systems, providing for retail item level tracking, tool tracking, real-time asset & inventory management.

#### ► APPLICATIONS

- Retail Item Tracking
- Tool Tracking
- Smart Cabinet Systems
- Inventory Management

#### ► FEATURES

- Unique, ultra-low profile
- Innovative „Array-Ability“ design
- Circular polarized
- Easy to integrate with iDTRONIC UHF Modules & RFID Readers

#### ► RFID OPTIONS

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

## TECHNICAL DATA

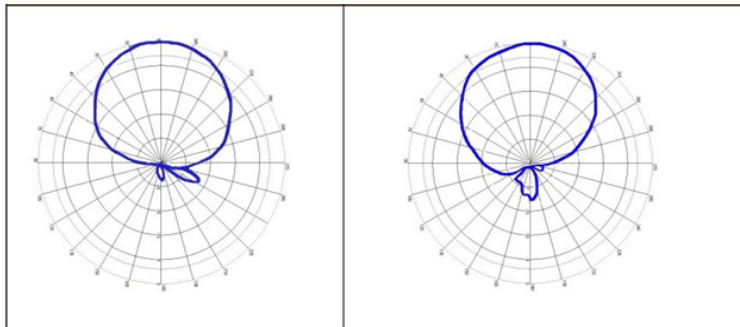
ELECTRICAL SPECIFICATIONS	
Frequency Range	864 – 869 MHz (EU)   902 – 928 MHz (US)
Polarization	RHCP (Right Hand Circular Polarized)
Operating Distance	up to 2 m*
Connector Type	SMA female side connector
Antenna Gain	6 dBiC typical
Beam width	65° in both planes
VSWR	1.4 typical
Front to back	17 dB
Axial Ratio	2 dB typical
Nominal Impedance	50 Ω
Anti-static protection	DC Grounded
Antenna Detection	10K Ω resistance
Maximum Input Power	3 W

MECHANICAL   ENVIRONMENTAL SPECIFICATIONS	
Dimensions	300 × 300 × 8.5 mm
Weight	0.85 kg
Housing-Material	Fire-Retardant ABS
Environmental Rating	IP54
Operating & Storage Temperature	-20 ° to +55 °C
Mounting	Integrated mounting guides
Humidity	5% to 95%

### SUPPORTED TRANSPONDERS

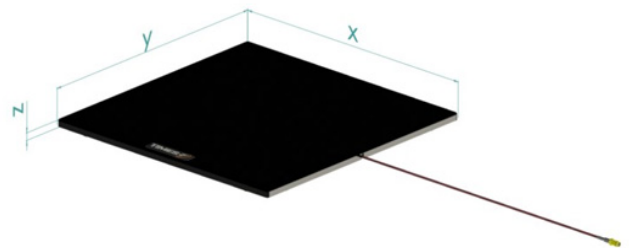
Standard ISO 18000-6C (EPC Class 1 Generation 2)  
E.g.: Alien Higgs 2/3/4, Impinj Monza, NXP UCODE, etc.

## RADIATION PATTERN & ANTENNA PLANES



SHELF A7030C YZ Plane

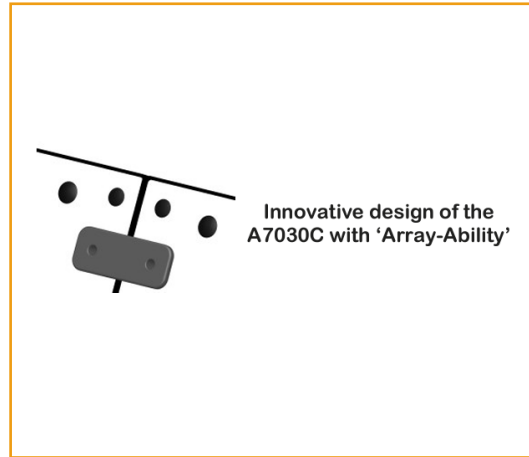
SHELF A7030C XZ Plane



## ORDER CODE

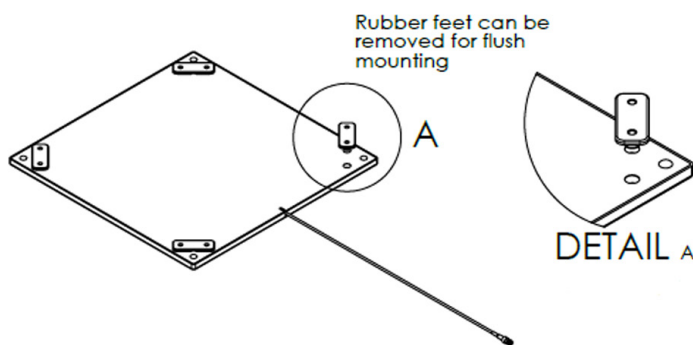
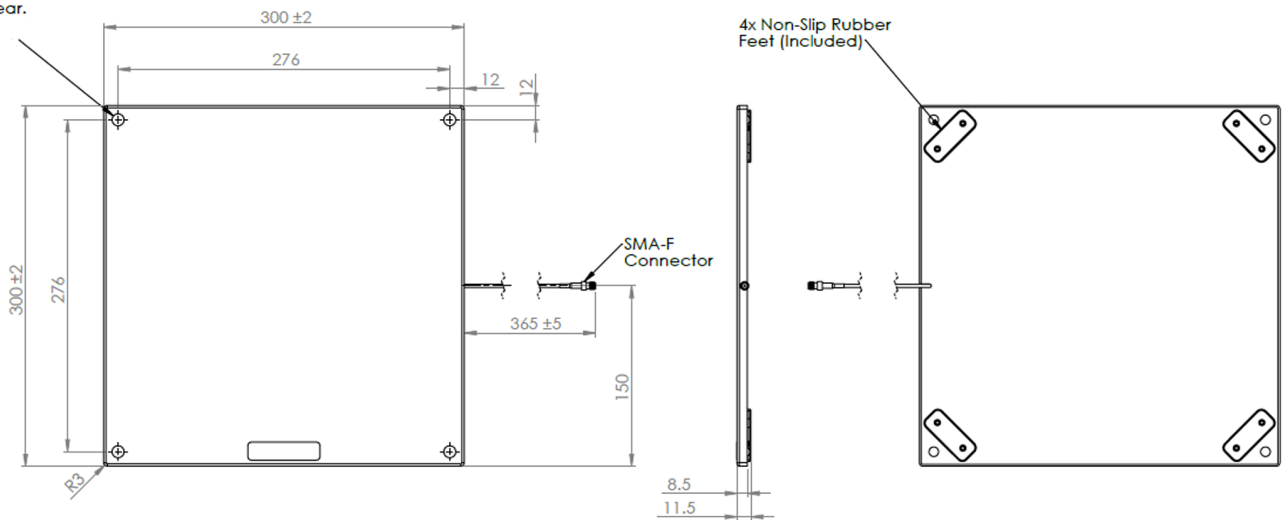
VERSION	ORDER CODE
SHELF A7030C UHF Antenna - ETSI	R-IN-UHF-A7030C
SHELF A7030C UHF Antenna - FCC	R-IN-UHF-A7030C-FCC

## PRODUCT PICTURES



## DIMENSIONS

4x Mounting Guide for  
Ø 6 screws/bolts or smaller.  
Marker on front surface,  
pre-drilled on rear.



## APPLICATION EXAMPLES

### JEWELRY TRACKING

Using RFID tags on jewelry allows you to instantly inventory everything. With the SHELF A7030C antenna, you'll be able to accurately and confidently track all pieces of expensive jewelry.



### RETAIL MANAGEMENT

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

The antenna sends an signal to the computer when the shelf of products is empty. The employee's can react quickly and fill up the empty shelf immediately. This ensures the revenue of the retail market and immerses the customer satisfaction.



### WORKSHOP & INDUSTRIAL TOOL TRACKING

A tool tracking system automates all tool inventory management procedures by using RFID tags, and antennas. With the SHELF A7030C antenna you can identify, track and control tools in real-time throughout the workday.

