

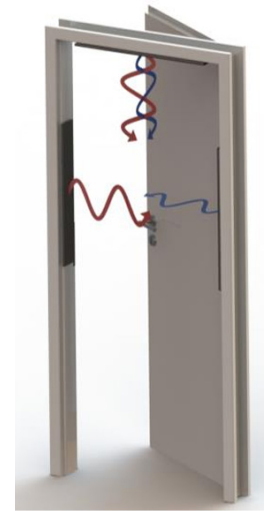
UHF ANTENNA DOOR A8065

PRODUCT DESCRIPTION

Introducing the SlimLine A8065 Combo, an elegantly designed Doorway Portal Application that seamlessly integrates into your space while delivering exceptional performance with a complete 360° tag orientation read coverage.

This groundbreaking solution establishes a new industry benchmark by harmoniously combining three polarizations - Vertical Linear, Horizontal Linear on the sides, and Dual Linear on top. This unique configuration ensures reliable tag reading, regardless of its orientation.

With its remarkably slim profile, measuring just 10.5mm (0.4") in thickness, and a sleek 88mm (3.4") width, these antennas effortlessly integrates into door frames, optimizing space utilization in high-traffic areas. Each variant of the A8065 (D, V, H) can be acquired individually, or as a set, with its corresponding part number detailed below.



► APPLICATIONS

- Access Management
- Asset / Tool Tracking
- Healthcare - Patient Monitoring
- Event Management

► FEATURES

- 360° Reading Coverage
- Slim Dimensions for Door Frames
- Ideal for High Foot Traffic Events
- Easy to integrate with iDTRONIC UHF Modules & RFID Readers

► RFID OPTIONS

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

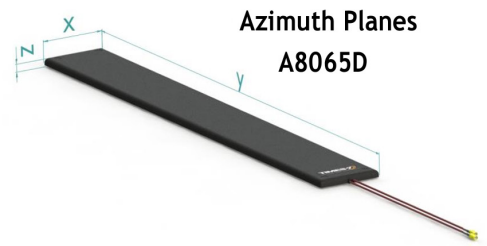
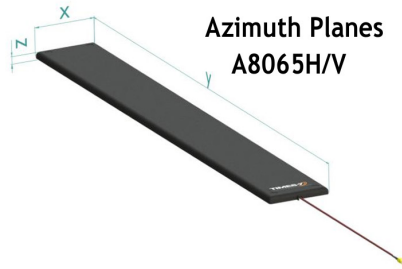
TECHNICAL DATA

ELECTRICAL SPECIFICATIONS	A8065 DUAL LINEAR	A8065 HORIZONTAL	A8065 VERTICAL
Frequency Range	864 – 869 MHz (EU) 902 – 928 MHz (US)		
Polarization	Vertically & Horizontally Linear	Horizontally Linear	Vertically Linear
Operating Distance	up to 2 m*		
Connector Type	SMA female side connector		
Antenna Gain	Horizontal: 3dBi typical Vertical: 4dBi typical	6dBi typical	7.5dBi typical
Beam width	Vertical: 25° in XZ plane; Horizontal: 40° in XZ Vertical: 140° in YZ plane; Horizontal: 110° in YZ	30° in XZ-plane 110° in YZ-plane	25° in XZ-plane 120° in YZ-plane
VSWR	2.5 typical	1.8 typical	1.8 typical
Front to back	Vertical Pol: -5dB; Horizontal Pol: -10dB	-6dB	-12dB
Nominal Impedance	50 Ω		
Anti-static protection	DC Grounded		
Antenna Detection	10K Ω resistance		
Maximum Input Power	3 W		
MECHANICAL ENVIRONMENTAL SPECIFICATIONS			
Dimensions	700 × 90 × 10.5 mm		
Weight	0.60 kg		
Cable / Length	RG-316 Cable / 300 mm / 1"		
Housing-Material	Fire-Retardant ABS		
Environmental Rating	IP54		
Operating & Storage Temperature	-20 ° to +55 °C		
Mounting	Integrated mounting guides / adhesive foam strip		
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.		

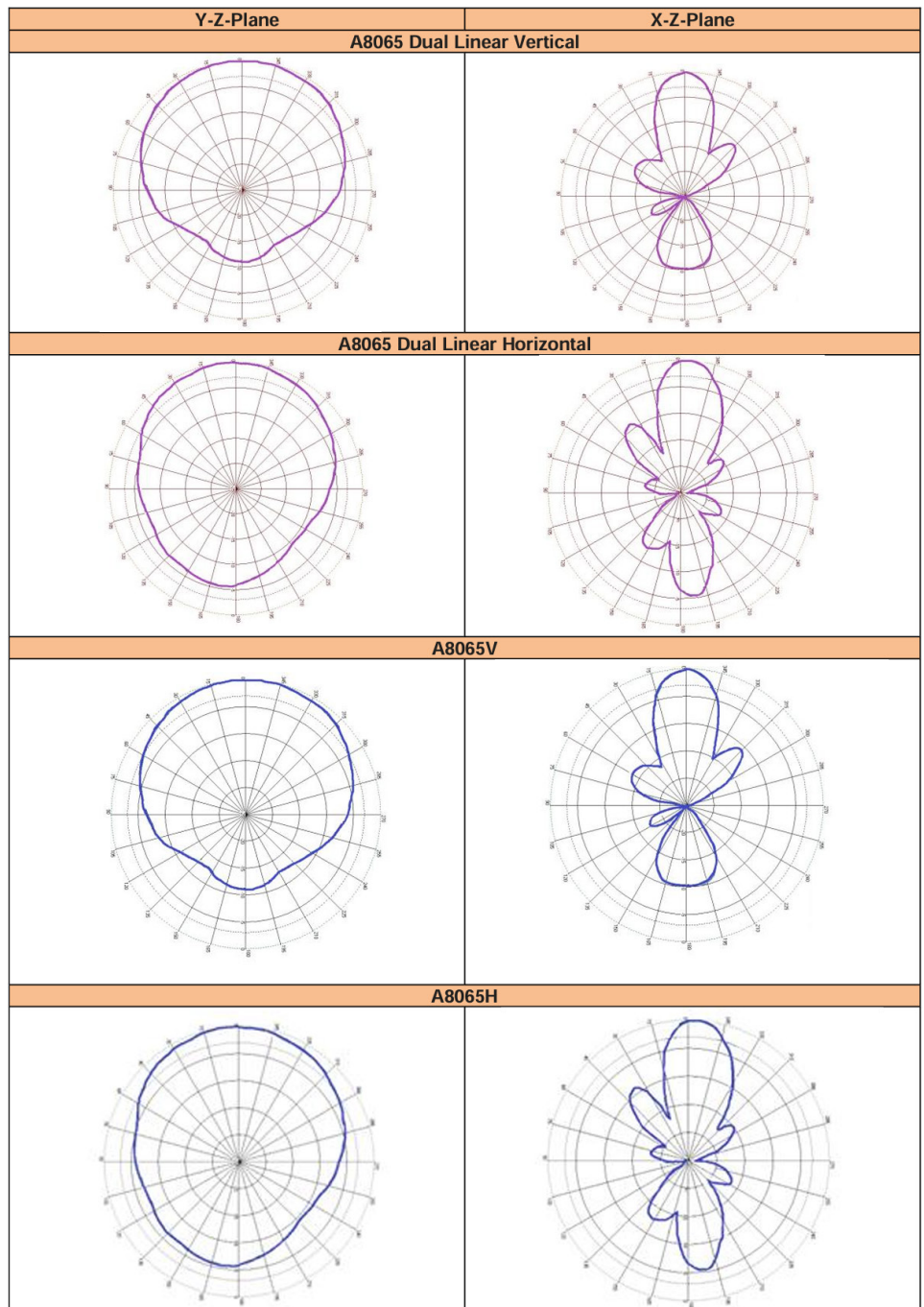
ORDER CODE

VERSION	A8065 SET (1x DUAL LINEAR / 1x HORIZONTAL / 1x VERTICAL)
864 – 869 MHz (EU)	R-IN-UHF-A8065
902 – 928 MHz (US)	R-IN-UHF-A8065-FCC

ANTENNA PLANES



RADIATION PATTERN

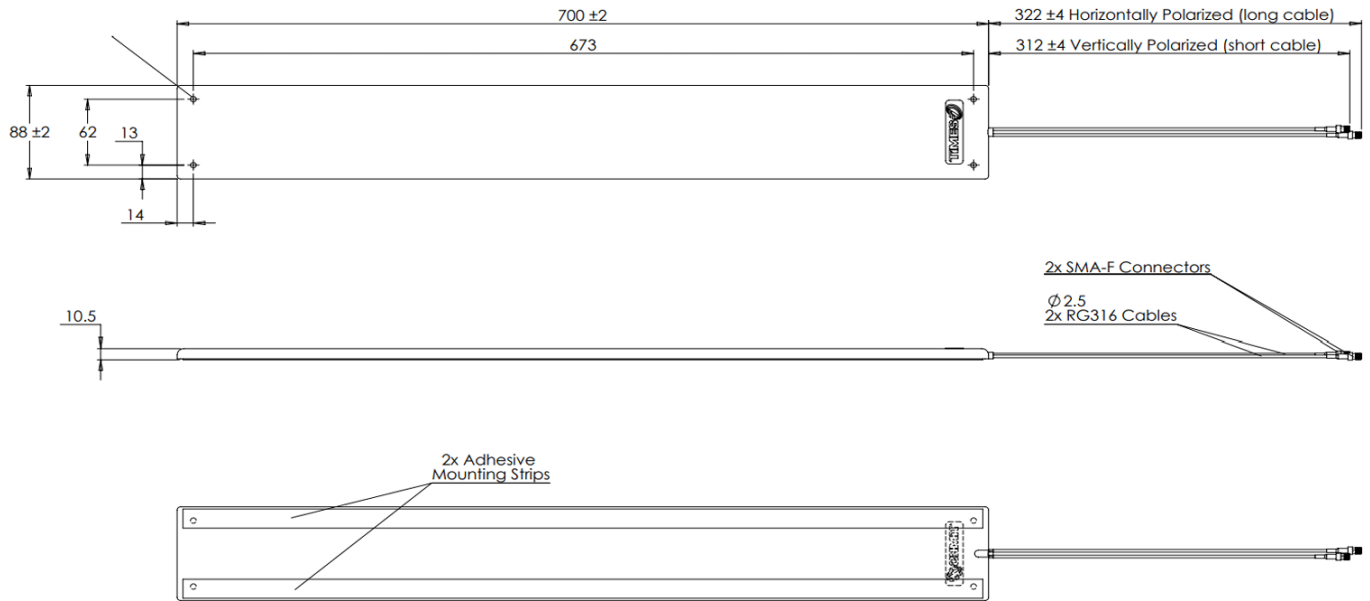


DIMENSIONS

DUAL LINEAR DOOR FRAME ANTENNA - A8065

Mounting guide for
Ø 6 screws/bolts or smaller (4 places).

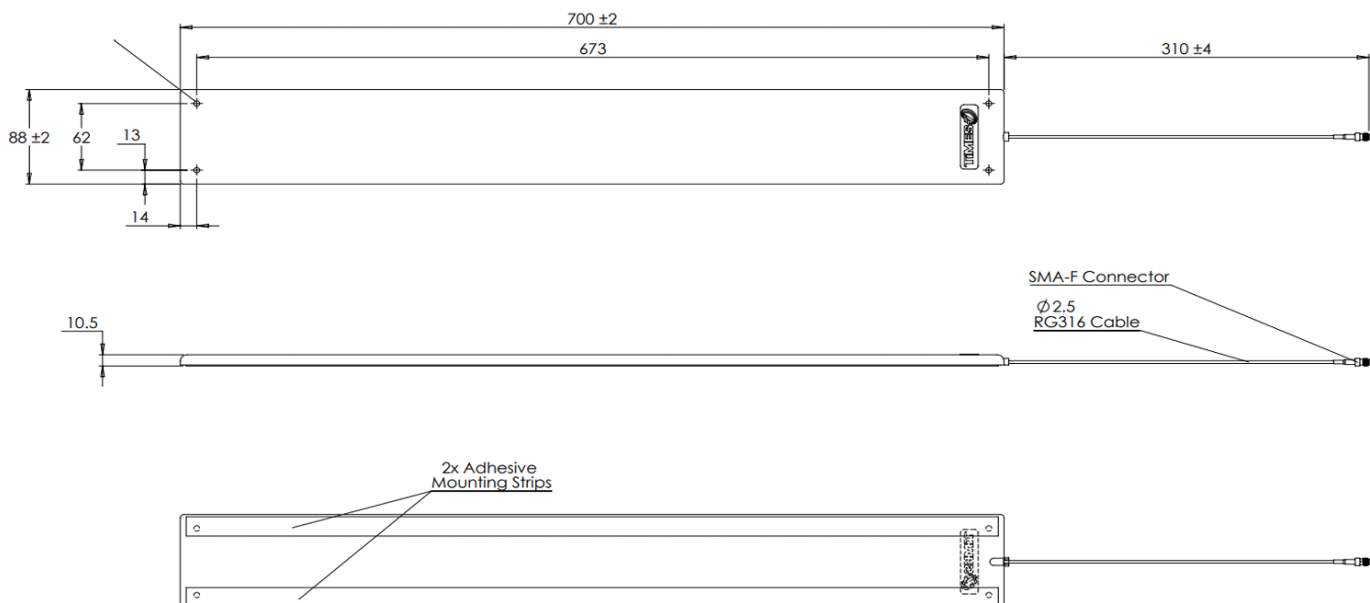
Marker on front surface,
pre-drilled on rear.



HORIZONTALLY & VERTICALLY POLARIZED DOOR FRAME ANTENNA - A8065

Mounting guide for
Ø 6 screws/bolts or smaller (4 places).

Marker on front surface,
pre-drilled on rear.



APPLICATION EXAMPLES

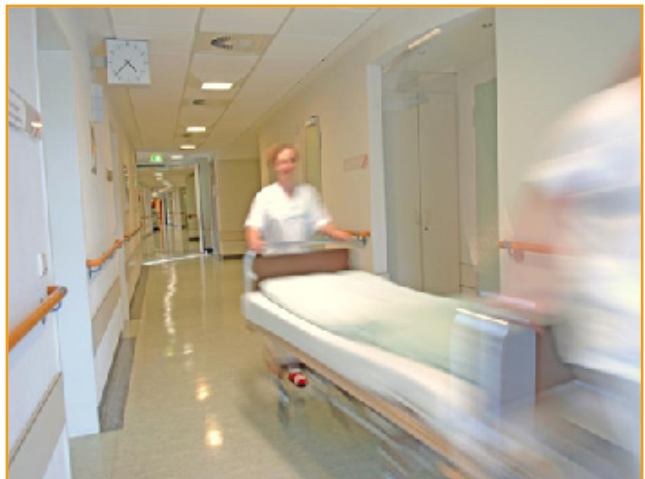
ATTENDEE TRACKING

Using RFID tags on name badges or wristbands allows event organizers to track conference attendees when entering a doorway equipped with iDTRONIC's DOOR A8065 Antenna. This allows for personalized greetings when entering a specific area, increased security measures or optimized statistical analysis.



PATIENT MONITORING

Monitoring patients during their stay in hospitals and clinics is crucial to ensuring a safe and efficient health-care facility. Door frames and hallways can be set up with the DOOR A8065 Antennas to enable real-time monitoring of patient activity within the premises.



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 A8065 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.

