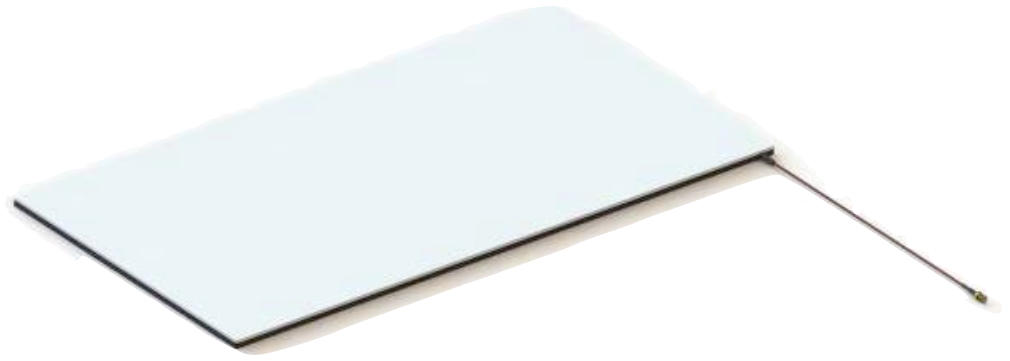


TSA1163

SlimLine NEAR FIELD RAIN (UHF) RFID ANTENNA



The TSA1163 is the largest antenna in our new True NearField Antenna Series as well as the largest NearField RFID antenna on the market with a surface of 300 x 600 mm at just 8.6 mm height. This antenna was designed to deal with tricky assets, such as liquids or metals, much like the other antennas in this series.

Our True NearField antennas are explicitly designed for applications, which require “near zone only” tag detection. With hardly any far-field components and no surface dead spots, the TSA1163 antenna provides reliable tag reads within a very constricted read zone. There is also a very large footprint available, which lowers the cost and complexity during installation meaning you will need less readers and cables when using this antenna.

The TSA1163 antenna has integrated mounting holes on the rear side, which can be drilled through for using mounting screws. In addition, this antenna comes with an optional self-adhesive rubber feet kit to stop the antenna from slipping.

Typical Applications

POS

Using a near-field antenna for POS systems is a great way to reduce the time of identifying each item at the check-out counter. Our TSA1163 antenna can instantly and correctly identify all items that are placed on the antenna so long as the items are tagged appropriately. Having the items in close proximity to the near-field antenna means that any item moving past or around the antenna cannot be unintentionally read, which could result in the customer paying for items they did not want to purchase.



Shelving

The proximity read range of near-field antennas used in shelving applications allows for tracking items on each individual shelf avoiding stray reads in neighboring shelves or items which are passing by. This allows for a more defined and focused read area, in which you gain visibility over the items that you want to track.



TSA1163

Specifications

Physical Characteristics		
Specifications	Working Frequency	865-868MHz / 902-928MHz
	Polarization	Near Filed
	VSWR	1.95 Typical
	Maximum Power	3W
	Axial Ratio	2dB typical
	Input Impedance	50Ω
	Antistatic Protection	YES DC Grounded
	Connector	SMA Female side fly lead
Physical Parameters	Cable / Lenght	RG316 / 480mm
	Dimension	Flush Mount: 600mm x 300mm x 8.6mm
	Weight	1,175Kg
	Fixed Type	Flush or self-adhesive Rubber
	Housing Material	Fire retardant ABS
Enviroments	Shell Color	White or Black
	Operating Temperature	0°C +50°C
	Storage Temperature	-30°C +50°C
	IP Protection Grade	IP54

Mounting Options

The TSA1163 True-NearField™ antenna can be flush mounted on flat surfaces using mounting screws or VESA mounted using the mounting plates designed for the NearField™ Antenna Series. Each antenna provides mounting holes, which are only visible on the rear side of the antenna. These holes can be drilled through without damaging the product or interfering with the performance. For further assistance please go to our mounting guide.

If drilling through the surface of the antenna is not an option, each antenna is provided with a self-adhesive rubber feet kit. These can be attached over the integrated mounting holes to stop the antenna from slipping.

