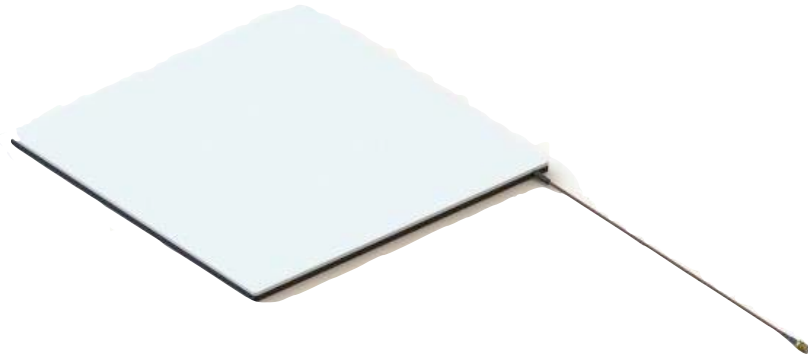


# TSA1130

## SlimLine NEAR FILED RAIN (UHF) RFID ANTENNA



The TSA1130 antenna is part of the True NearField Antenna Series offering a 300 mm square surface with the familiar Times-7 slim profile of just 8.6 mm. This antenna was designed to deal with tricky assets, such as liquids or metals, much like the other antennas in this series.

The TSA1130 True NearField™ Antenna is explicitly designed for applications, which require “near zone only” tag detection. A near field antenna works well in applications that involve metals, liquid and other challenging materials that are hard to be detected by a far-field antenna. With radiative near-field components and no surface dead spots, the A1130 antenna provides reliable tag reads within a very constricted read zone.

The unique antenna design of the True NearField™ antenna series offers three dimensions. The TSA1130 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

#### Liquids

Choosing the correct antenna is critical when it comes to reading liquid assets. This True NearField reader antennas’ intense surface fields can penetrate through liquids. A True NearField antenna will achieve stronger read results because of the close proximity to the tracked item, which means that minimal RF radiation will be absorbed by the liquid.



#### Metals

Metal environments affect the performance of far-field antennas in such a way, that it lowers the gain or reflects the RF energy, resulting in an inconsistent and unpredictable read range and read losses. These issues can be avoided by using near-field antennas, due to the fact, that these antennas operate using the magnetic field on the antennas surface only.



# TSA1130

## Specifications

Physical Characteristics		
Specifications	<b>Working Frequency</b>	865-868MHz / 902-928MHz
	<b>Polarization</b>	Near Filed
	<b>VSWR</b>	1.95 Typical
	<b>Maximum Power</b>	3W
	<b>Axial Ratio</b>	2dB typical
	<b>Input Impedance</b>	50Ω
	<b>Antistatic Protection</b>	YES DC Grounded
	<b>Connector</b>	SMA Female side fly lead
Physical Parameters	<b>Cable / Length</b>	RG316 / 480mm
	<b>Dimension</b>	Flush Mount: 300mm x 300mm x 8.6mm
	<b>Weight</b>	0.58Kg
	<b>Fixed Type</b>	Flush or self-adhesive Rubber
	<b>Housing Material</b>	Fire retardant ABS
Enviroments	<b>Shell Color</b>	White or Black
	<b>Operating Temperature</b>	0°C +50°C
	<b>Storage Temperature</b>	-30°C +50°C
	<b>IP Protection Grade</b>	IP54

### Mounting Options

The TSA1130 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.

