

TSA5060

SlimLime Multipurpose RAIN (UHF) RFID ANTENNA



TSA5060 is a circular polarized high gain antenna with an ultra-low profile, offering a read range of up to 10 m.

The TSA5060 is designed with a multi-element array to avoid distortion for maximum readability in a highly reflective and densely populated tag environment. This makes the TSA5060 ideal for industrial portal applications.

Its standard physical size (600 mm x 300 mm) allows the TSA5060 to be readily mounted behind ceiling tiles, in cabinets or to cover large bench tops. The TSA5060 can be either flush mounted using the six integrated mounting holes or VESA mounted using the optional mounting Plate.

Typical Applications

Laundry

With its high gain, the TSA5060 antenna has the potential to read through densely packed laundry items. The antennas can either be configured as a standalone industrial portal to track trolleys full of laundry goods or can be used in a conveyor to track movement. The antenna's confined RF emission eliminates stray tag reads. The antennas can also be used over the bench tops in packing/folding stations.



Vehicle Tolling / Access Control

The TSA5060's 10.5 dBiC gain is powerful enough to read vehicular tags, e.g. embedded in the windscreen or the number plate, from greater distances. The 25° narrow beam can be used to create confined zones for each lane.

Warehouse Shelving

The TSA5060's footprint fits both metric and imperial shelves. The slim antenna offers a snug fit inside the shelf without engulfing a lot of useful space. The multi-element antenna design keeps the antenna's beam active in every nook and corner. Assets in the shelves can be monitored in real-time with great accuracy.



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Specifications

Physical Characteristics		
Specifications	Working Frequency	865-868MHz / 902-928MHz
	Polarization	RHCP (Right Hand Circular Polarization)
	Far Filed Gain	10.5dBi typical
	Far Filed Gain 3dB beam width (*)	25° in XZ-Plane 60° in XY-Plane
	VSWR	1.4 Typical
	Front to Back	-25dB
	Maximum Power	3W
	Axial Ratio	2dB typical
	Input Impedance	50Ω
	Antistatic Protection	YES DC Grounded
	Antenna detection	10K Resistance
	Connector	SMA female side fly lead
Physical Parameters	Cable type / lenght	RG316 / 270mm
	Dimension	600mm x 300mm x 9.0mm
	Weight	1.4Kg
	Fixed Type	Flush or VESA mount
	Housing Material	Fire retardant ABS
Enviroments	Shell Color	Black or White
	Operating Temperature	-20°C +35°C
	Storage Temperature	-30°C +60°C
	IP Protection Grade	IP54

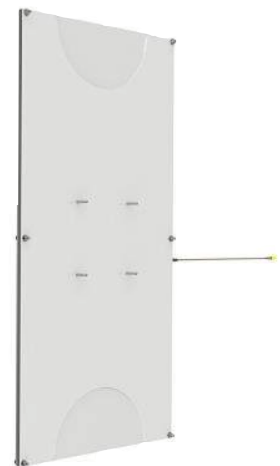
Mounting Options

Flush mount

The TSA5060 antenna has 6 pre-drilled mounting holes on the rear side, which can be drilled fully through without damaging the antenna. For the exact position please refer to the mechanical drawing on page 4. For further instructions please click [here](#).

Bracket mount

The mounting Plate for the TSA5060 is designed to support VESA brackets. Each mounting plate comes with a screw kit. For exact dimensions, please refer to the mechanical drawing on page 5. For instructions on how to attach the bracket to the antenna please click [here](#).

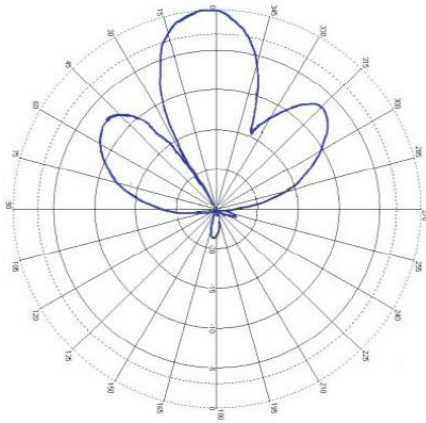


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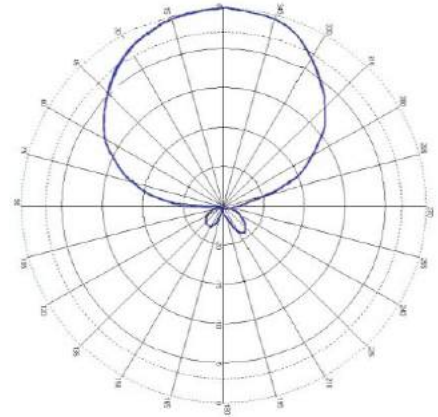
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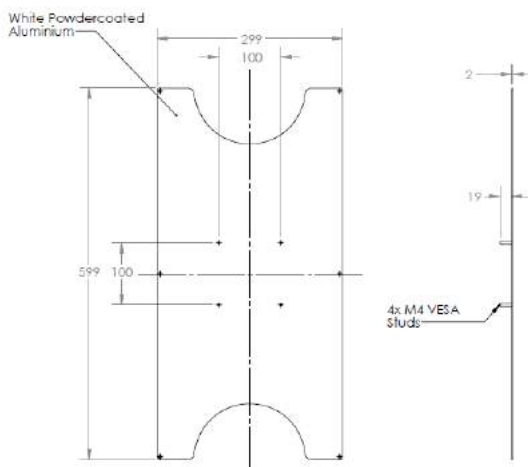
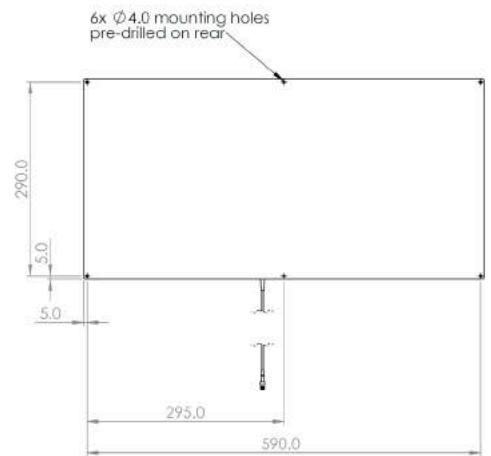
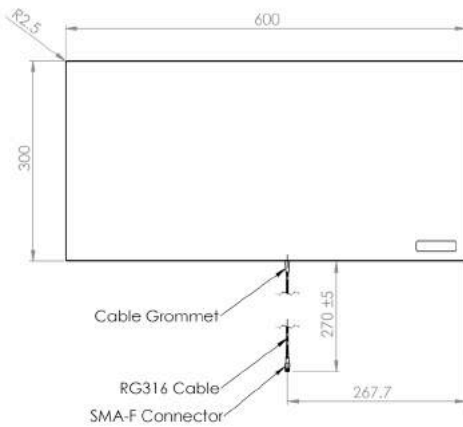
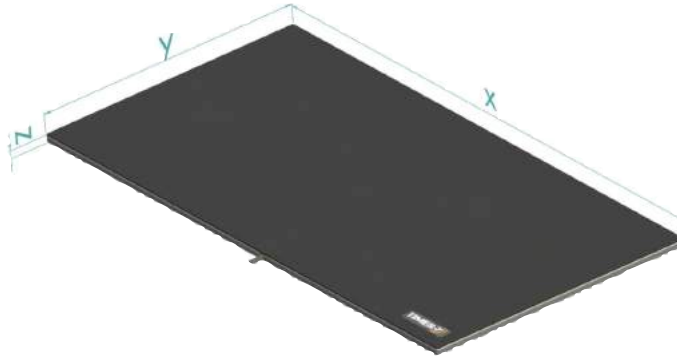
Specifications



XZ - Plane



YZ - Plane



Mounting Plate