

## SAAT-T505 User Manual

### 1. Overview

Based on the independent R&D of Shenzhen Academy of Aerospace Technology, SAAT-T505 active RFID tag operates in the 2.45 GHz band, which can be worn or mounted on vehicle windshield, widely used in school & cooperation personnel management and positioning; automatic vehicle identification, parking management, highway toll collection and so on...

#### Functions

- Exclusive low- power consumption, longer working time
- Permanent 4-byte basic ID support
- Active operating model



PVC plastic shell, high-tension, waterproofing IP67

### 2. Technical data

<b>Technical Parameter</b>	
Operating Frequency	2.400-2.4835GHz
Modulation	GFSK
Communication Rate	1Mbps
Power Output	-6dBm
<b>Basic Parameter</b>	
Basic ID	4 bits
Battery Life	5years (related with the operating mode and output power)
Reading Range	>150m (Active operating mode, test under open environment)
<b>Mechanical &amp; Electrical Performance</b>	
Dimension	85mm × 55mm × 5mm(L × W × H)
Weight	22g
Power Supply	Built-in 750m Ah lithium battery
Operating Temperature	-40°C~+70°C
Storage Temperature	-40°C~+80°C

Operating Humidity	20% ~95%(non-condensing)
Protection Degree	IP67
Vibration Resistance	10~2000Hz, 20mm/15g, Triaxial
Reliability	MTBF $\geq$ 1 $\times$ 10 <sup>5</sup> h

### 3. Contacts information

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FCC Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.