

RFID  
UHF



## AX'Tag Atomic S

This UHF tag is compatible with metal. Thanks to its ultra small size (10 x 2,5 x 2,5 mm) the tag is very easily integrated in small metal equipment, such as industrial hand tools. It provides reliable identification.

### Key features

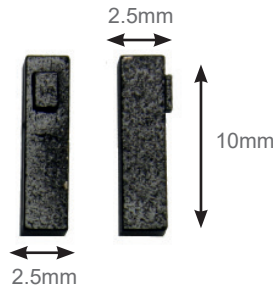


### Applications

- Traceability of instruments
- Industrial tools management
- Automated Tool Control
- Maintenance operations

### Physical specifications

Dimensions / Weight	10 x 2,5 x 2,5 mm / 0,24g
Tag Material	Ceramic
Mounting Method	Glue
Applicable surface	On/in/off metal
Color	Black



### Functional specifications

Type	UHF
Frequency	902-928 MHz (US); 866-868 MHz (EU)
Air interface protocol	ISO 18000-6C EPC Class1 Gen2
IC Type	Alien Higgs-3
Memory	EPC 96 bits. User 512 bits. TID 64 bits
Data retention	50 years
Write Cycles	100 000 at 25°C
Functionalities	Read/write
Read range	On Metal: Up to 1 m, off Metal: Up to 5 cm
Read Rate	400 tags per second for 96-EPC bit numb

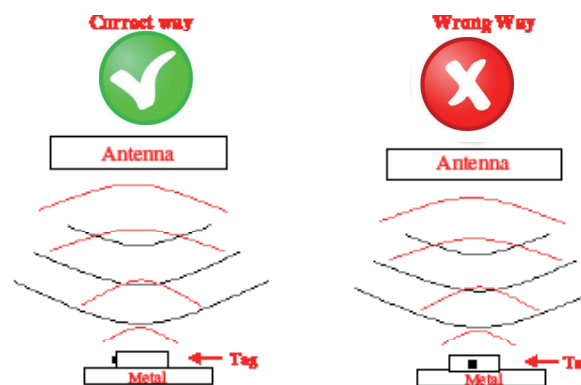
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## Environmental and industry compliance

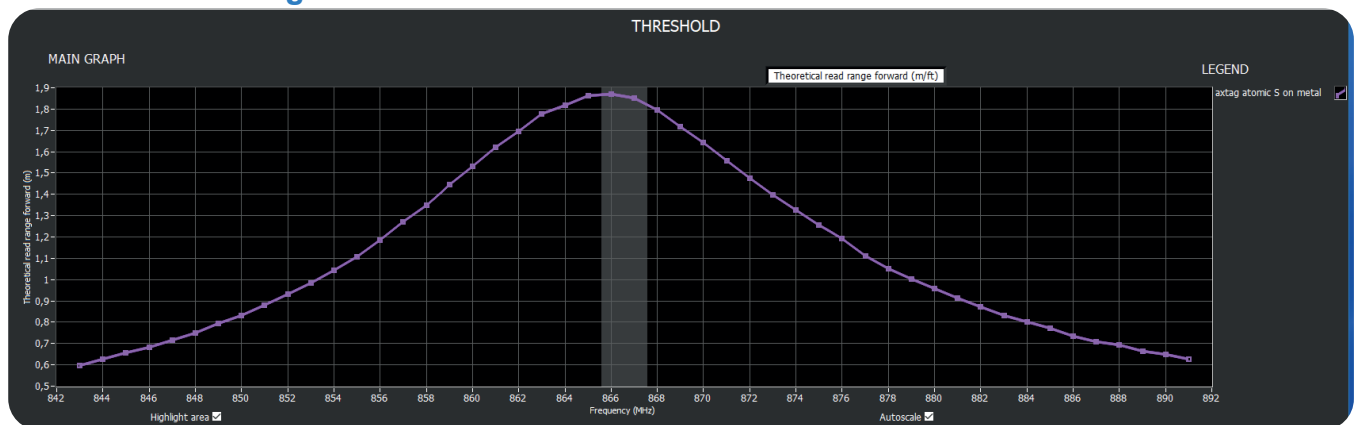
IP classification	IP68
Storage Temperature	-40°C to 150°C
Operating Temperature	-40°C to 85°C
Resistance	Water, cleaning products, vibrations

## Tag Placement

- Tag can be easily attached through adhesive tape at back.
- Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- If the tag is to be placed/embed in metal then ensure that the tag should be surrounded by metallic surface to get optimum read range.
- Ensure that there is no hindrance between the tag and the reader antenna.
- The tag must be placed in relation to the reader's antenna to be read correctly as shown in the figure below :



## Measured read range



## References

ANTUHF0433	AX'Tag Atomic S UHF, Alien Higgs3, 10x2,5x2,5mm, with adhesive, EU
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