



**+300°C**

**AGX 8000HT  
High Temperature  
UHF Metal Tag**

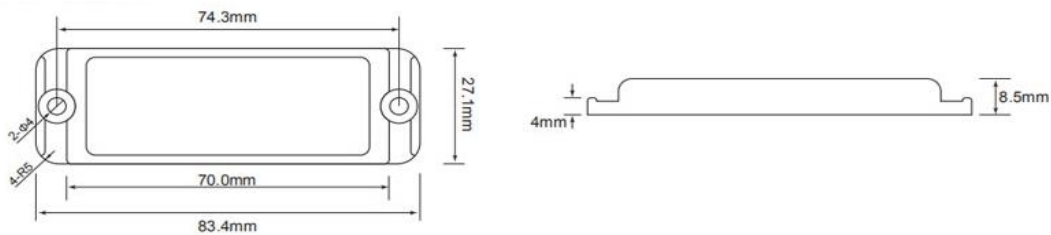
**Product Description**

**General specifications**

The high temperature resistant RFID tag AGX 8000HT operates in the UHF frequency band. It is specially designed to withstand very difficult environments, it has an IP69X protection level.

- 1) High Temperature Resistant: Withstand high temperature up to 300°C, withstand 260°C for long time.
- 2) Acid Alkali resistant: Anti acid and alkali, can be used in harsh environment, strong acid and alkali.
- 3) Applied on metal surface: The read range on metal surfaces can be up to 4.2m.

**Dimension**



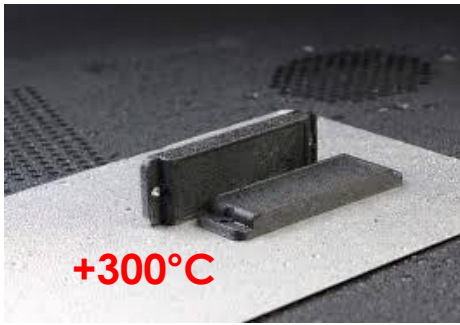
**Article no:**

**AGX 8000HT**

**Typical Applications**

- Bicycle / Vehicle Tracking
- Trace & Track
- Factory automation
- Electronic Toll Collection
- Supply Chain Management
- Automotive & Security
- Maintenance
- Healthcare
- Production

DATA SHEET



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Technical Specifications	AGX 8000HT UHF Metal Tag
Operation mode	Passive (Battery less)
Protocol	EPC Class 1 Gen2
ISO Standard	ISO 18000-6C
Operating Frequency	865-868MHz (EU) 902-928MHz (FCC)
Memory	EPC: 96 Bit (up to 480bits) User: 512 Bit TID: 64 Bit
IC Type	Alien Higgs 3
Programming Cycle	100,000 cycles
Mounting Methods	Screw-Hexagon socket head cap screw (M3 / M4)
Colours	black

Environmental Specifications	
Storage Temperature	-60°C to +260°C, +300°C 100 hours
Operating Temperature	-40°C to +200°C
Material	PEEK
Dimensions	83.4x27.1mm, (Hole: D4mmx2) - Thickness 8.5 mm
Weight	max. 24 g
Ingress Protection	IP68 & IP69X
Withstand PH	PH0 to PH14, and all other liquid that PEEK can handle with
Compression strength	150Mpa
Reliability testing terms and results	<p>a. Withstand 300°C for 100 hours continuously without damage.                      b. Withstand 280°C for 1000 hours continuously without damage.                      c. Withstand 260°C for 2000 hours continuously without damage.                      d. Withstand -20°C for 8 hours then 260°C for 16 hours per day, 80 days continuously without damage.                      e. Withstand from 150°C to -40°C, 7.5 cycles per day, 80 days continuously with total 600 cycles without damage.                      f. Withstand 260°C for 100 hours continuously then soaking in 2 meters depth water for 48 hours, without seepage or damage</p>