

iTAG500 Ultra® - Very long Range Intrinsically Safe UHF RFID Tag



A high performance, very long-range passive UHF RFID tag which can be deployed in all potentially explosive, harsh, wet, and corrosive environments

T4/T5/T6 -40°C ≤ Ta ≤ +80°C- dependant on RF reader power

*ATEX II 1G Ex ia IIC Ga, 1 M1 Ex ia Ma
IECEX 1G Ex ia IIC Ga, 1 M1 Ex ia Ma*

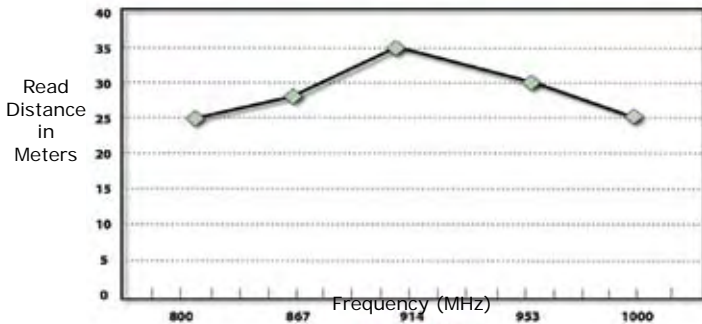
IP67

For fixed installation, rugged tags may also be used in Zone 0 IIC environments

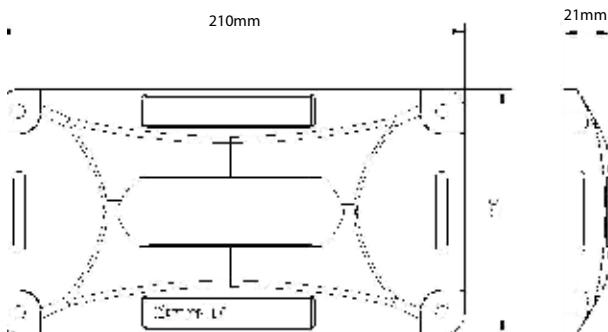
Overview

The Extronics iTAG500 Ultra is a globally compliant, passive UHF tag with a read range of up to 35m, on, off or near metals and liquids. The EPC Gen-2 compliant Ultra offers broadband functionality across all geographic regions. With its breakthrough RF performance, the Ultra RFID tag provides a cost-effective solution for applications which previously required semi-passive or active tags.

Performance



Dimensions



Specification

	Ultra
Read Range (m) ¹	Up to 35.0 (global)
On Metal or Balanced	Balanced
Size (mm) (Tolerance)	210 x 110 x 21.0 (+/- 1 mm)
Size (in) (Tolerance)	8.27 x 4.33 x 0.82 (+/- 0.04 in)
Weight (g)	265.0
Encasement	Rigid Case - ABS standard (Opt. Polycarbonate)
Frequency Range (MHz)	860–960 (Global)
IC Type (chip)	Alien Higgs 3
User Memory (bits)	512
Operating Temperature (°C)	-40 to +65 °C
IP Rating	IP67
Shock and Vibration ²	MIL STD 810-F BS EN 60068-2
Attachment	Manual (std.) Foam Adhesive (opt.)

¹. Quoted performance achieved using standard test methodology
². Product designed to meet MIL STD 810-F and BS EN 60068-2.