

iTAG500 Prox® - Short Range Intrinsically Safe UHF RFID Tag



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

T4/T5/T6 $-40^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$ - dependant on RF reader power

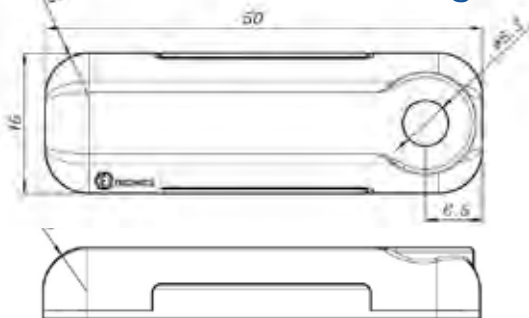
Label - ATEX II 2G Ex ia IIC Gb
IECEX 2G Ex ia IIC Gb
IP54

Rugged - ATEX II 1G Ex ia IIB Ga, II 2G Ex ia IIC GB, 1 M1 Ex ia Ma
IECEX 1G Ex ia IIB Ga, 2G Ex ia IIC GB, 1 M1 Ex ia Ma
IP68
For fixed installation, rugged tags may also be used in Zone 0 IIC environments

Overview

The Extronics iTAG500 Prox offers the smallest form factor and best performance in a metal environment of any UHF RFID Tag on the market. The Prox is available as a regionally-tuned tag, or broadband tag providing strong global functionality across all geographic regions. With their low profile and small footprint, Prox tags are ideally suited for asset tracking and management of small high-value assets, such as servers, routers, disk drives, tools and manufacturing equipment, construction helmets. Omni-ID Prox comes standard with a printed label finish. It is also available in a low profile ruggedized rigid case for applications with harsh environmental requirements.

Dimensions for Prox Rigid



Specification

	Prox Label		Prox Rigid Case
	Regional	Global	
Read Range ¹ (m)	Balanced Up to 3.0 (US) Up to 2.0 (EU)	Balanced Up to 2.5 (Global)	Balanced Up to 3.0 (global)
Size (mm)	33 x 10 x 4.8	35 x 10 x 4.8	50 x 16 x 8.4
Size (in)	1.30 x 0.39 x 0.19	1.38 x 0.39 x 0.19	1.97 x 0.63 x 0.33
Weight (g)	1.7 (US), 1.9 (EU)	1.9	6.0
Encasement	Synthetic Label	Synthetic Label	Rigid case (PC)
Frequency Range (MHz)	902–928 (US) 866–868 (EU)	860–960 (Global)	860–960 (global)
IC Type	Alien Higgs 3	Alien Higgs 3	Alien Higgs 3
User Memory	512 bits	512 bits	512 bits
Operating Temperature	+5 to +40 °C	+5 to +40 °C	-20 to +55 °C
IP Rating	IP54	IP54	IP68
Shock and Vibration ²	MIL STD 810-F BS EN 60068-2	MIL STD 810-F BS EN 60068-2	MIL STD 810-F BS EN 60068-2
Attachment	Film Adhesive (std.) Foam Adhesive (opt.)	Film Adhesive (std.) Foam Adhesive (opt.)	Manual (std.) Film or 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. Product is RoHS Compliant.