NOVATAGS
INDUSTRIAL RFID EDGE

Armor 240

The Armor 240 UHF RFID tag are designed for the industrial markets where critical and potentially hazardous situations require reliable identification of assets, Armor 240 tag has an long read range up to 10 meter and unrivaled performance to allowing customers to attach tags to metallic assets that have been too challenging to tracking, The Armor 240 tag capable survive high temperatures up to 464°F (240°C) and harsh elements such as high impact and caustic chemicals.

APPLICATIONS

- Industrial manufacturing
- Railway assets tracking
- Chemical container Tracking

FEATURES

- Excellent performance up to 10 meters
- Performs under repeated exposure to caustic fluids
- Survive high temperatures up to 464°F (240°C)
- Metal inserted holes for reliable attachment

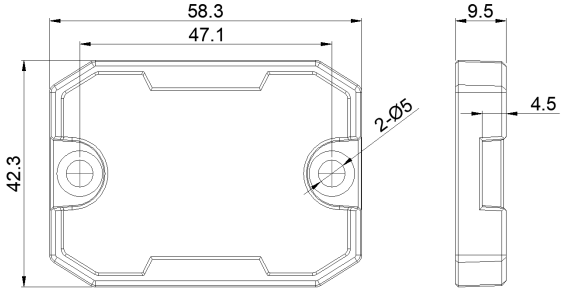
RF Specifications

RF protocol	ISO18000-6C, EPC Class 1 Gen2	
Operating frequency	865-868MHz (EU); 902-928MHz (US)	
Chip type	Higgs 3	UCODE 8
Memory configuration	96-Bits EPC (extensible to 480b) 512-Bits User 64-Bits Unique TID	128-Bits EPC 48-Bits Unique TID
Data retention	50 years at operation temperature	
Read range on metal (2W ERP)[1]	Up to 10 M (33 ft)	
Read range off metal (2W ERP)[1]	Limited	
Polarization	Linear	

[1]Read ranges are achieved by lab testing methodology, read range will vary with output power of reader and applications.

Physical Specifications

Material	High performance Engineering polymer
Color	Black
Dimensions	58.3 x 42.3 x 9.5 ±0.5mm / (2.3 x 1.67 x 0.37 ±0.02in)
Weight	1.46 oz (41.5 g)



Operational and Environmental Specifications

Operational temperature	-40°F (-40°C) to +185°F (+85°C)
Survivability temperature	-40°F (-40°C) to +464°F (+240°C)
Operational humidity	5% to 95% non-condensing
IP Rating	IP68, at 20°C, 6.6 ft (2 m) 24 hours tested
Shock and Vibration	MIL STD 810-G
Drop spec	Multiple drops to concrete: 4 ft./1.2 m across the operating temperature range
Chemical resistance[2]:	No significant changes after[2]:
• Salt water (15% salinity) exposure	• 168 hours
• Sodium Hydroxide (10% pH 14) exposure	• 168 hours
• Sulfuric acid (10%, pH 2) exposure	• 168 hours
• Engine oil exposure	• 168 hours
• Isopropyl exposure	• 48 hours
• alcohol Industrial cleaner exposure	• 48 hours
• Epoxy resin coolant exposure	• 48 hours
• Industrial rust lubricant exposure	• 48 hours
• Acetone exposure	• 48 hours
• Gasoline exposure	• 48 hours
• Diesel fuel exposure	• 48 hours
• Soap solution (30%) exposure	• 48 hours
• Carboxylic acids exposure	• 48 hours

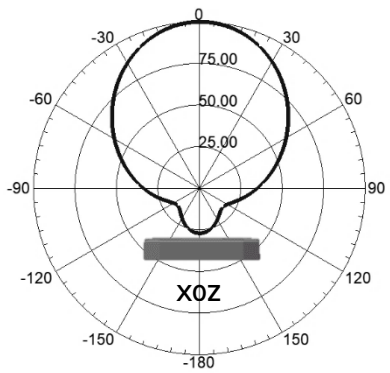
[2]The chemical resistance is based on the concentration of solutions and application environment, please contact us for further details on chemical.

Mounting System

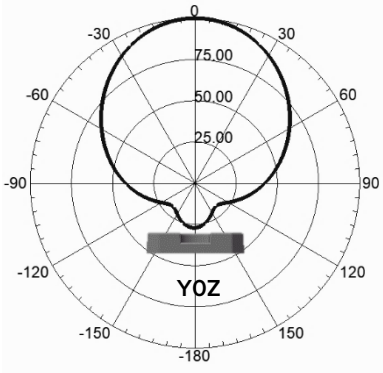
Mechanical fixings	• Screws (M4.5) • Rivet hole ø 0.19 in (ø 5 mm)

Radiation Pattern

On metal



Read Range (%)



Order Information

WJT-C0110-1	Armor 240 EU
WJT-C0110-2	Armor 240 US

OTHERS

Options	Laser engraving, Per-Encoding, Logo Printing
Warranty	1 year

The performance of the product should always be tested in the actual application conditions. Our recommendations are based on our most current knowledge and experience and the pictures and illustrations presented in this document are for illustration purposes only. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use.