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Micro^X II Plus-Automotive

Functional Specifications

RF air protocol	EPC Global Class1Gen 2; ISO/IEC
Operational frequency	902-928 MHz (US); 866-868 MHz (EU)
IC type	Qstar-56GN
Memory configu ation	496-EPC bits;2K-bit user memory;256-bit TID
Functionality	Read / write (user programmed)
Memory – expected read / write cycles	100,000 cycles at 77°F (25°C)
Memory Banks[1]	MB 00 "RESERVED" MB 01 "EPC"
	MB 10 "TID" MB 11 "USER"
Data retention	Up to 50 years [2]

Warranty (limited)	6 months
Applicable surface	Metal surfaces
Material	Engineering-grade nylon polymer
Color	Charcoal
Weight	1.06 oz (30 g)
Standard Compliance	VDA[3]-compatible data, ready for EDI
	VDA 5500, 5501, 5509, 5510, 5520

Performance Characteristics

Read range on metal (2W ERP) [4]	Up to 23 ft (7 m)
Polarization	Linear

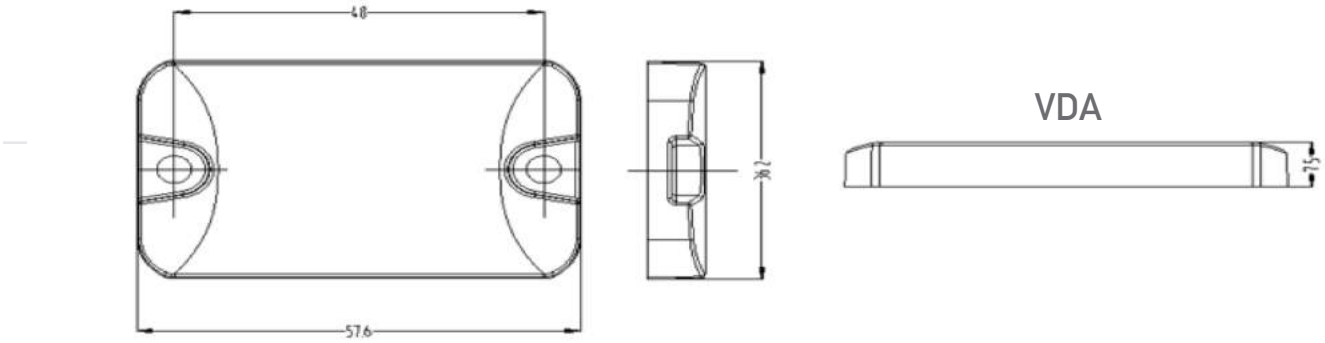
[1] Refer to the Structure of the Memory Banks (ISO/IEC 18000-63)
[2] The chip data retention is based on chip operating under general environment conditions.
[3] VDA: German Association of the Automotive Industry
[4] Actual read range may vary based upon use case and attachment methods.

For product inquiries: sales@xerafy.com

Environmental Influences and Durability

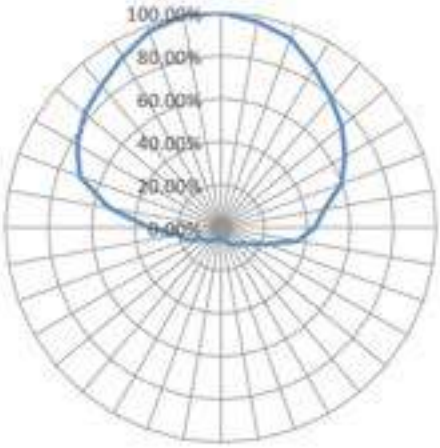
RoHS&REACH	EU Directive 2011/65/EU, EC1907/2006
ATEX/IECEx	Certified
Shock	3 ft (1 m) to concrete/granite up to 100 cycles
Compression strength	725psi (5000 kPa)
IP classification	IP68 (IEC 60529)
Operation temperature (read/write)	-40°F to +185°F (-40°C to +85°C)
Application temperature	-40°F to +482°F (-40°C to +250°C)
Temperature cycling test	30 Minutes at 250°C;1 hour cool-down; 600 test cycles
Peak temperature	+482°F / +250°C 6 hours duration
Humidity	
Operational humidity	5%-95% non-condensing
Storage humidity	5%-95% non-condensing
Chemical resistance[5] No physical or performance changes in: (tested in 186 hours exposure)	Salt water (15% salinity) / Ethanol / Acetone Industrial rust lubricant / Industrial cleaner Diesel fuel / Gasoline / Engine oil Isopropanol [5] Soap solution (30%) [5] Sodium hydroxide (10%, pH13) [5] Methanol
Mechanical resistance	Hits, vibrations, pressure, friction
Weather conditions resistance	Snow, rain, frost, ice, fog

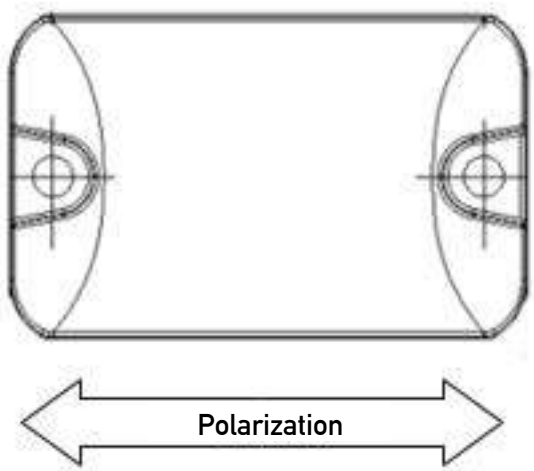
Product Dimensions



Dimensions (mm)	57.6 x 36.2 x 7.5
Tolerance	+/- 0.5 mm
Dimensions (in)	2.27 x 1.43 x 0.30
Tolerance	+/- 0.02 in
Rivet hole diameter	0.177 in +/-0.008 (4.5 mm +/- 0.2)

Radiation Patterns



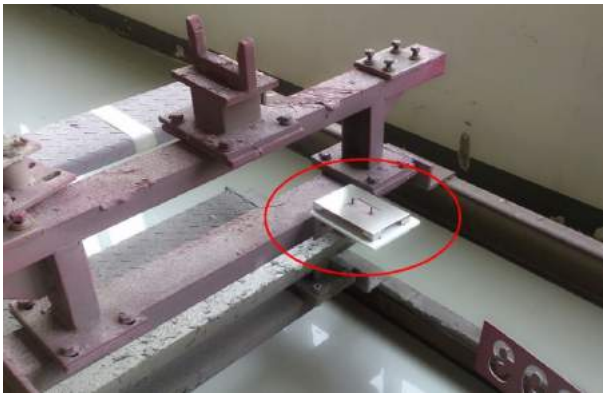


Installation Instructions

The tag can be mechanically attached using:

- Screws (Rivet hole, M4)
- Pop rivets (Max size 3.2mm)
- Adhesive bondings

This tag was used at real paintshop plant



Personalization Options

Several options are available:

- Tag programming
- Customized laser engraving
- Metal insert option, inner diameter 3.5mm

Order information

X2130-US130-Q56GN	Micro XII Plus-Automotive US
X2130-EU130-Q56GN	Micro XII Plus-Automotive EU

Structure of the Memory Banks (ISO/IEC 18000-63)