

SMTX SERIES

SMTX 5320M™

SMTX 5320M is the product of response to customer demand for highly rugged tags that can be used in harsh and industrial environments and logistics, transportation and yard management application with top performance. The tag is designed to fit into small gaps and meet the identification requirements of metallic assets. The robust design protects the industrial PU printing (non-yellowing polyurethane) against chemical attacks of general and abrasive cleaning products (anti-scratch). The small stature of this tag makes it ideal for a broad range of industrial, transportation and asset management applications.



Overview

The SMTX 5320M tag provides an effective solution for manufacturers, oil & gas, logistics or RTI pool owners to manage their assets in transit.

The use of RFID tags provides better visibility and control over supply chains, improves security of goods during distribution and enables automated logistics and lean manufacturing processes.

This special long-forum, rugged tag features an impressive, 6+ meters read-range when mounted on metal assets and carries up to a 10-year life expectancy.



Features & Benefits

- Easy-to-use RFID tag that can be attached on any surface, including metallic
- With a small footprint, it is well suited for attachment to small spaces commonly found on assets
- Customizable with human readable numbers, barcode/QR code
- Rugged clean resin assures the tag durability and longevity with industry high ingress protection rating of 68
- Supplied with high strength adhesive
- Pre-encoding: Customer-specific encoding of EPC or user memory, locking permanently or with password. SmartX offers a full service bureau for printing tags at point of manufacture.

Industries

- Logistics and Returnable Transport Items (RTI)
- Construction & Mining
- Oil & Gas
- Equipment Rental
- Manufacturing & Automotive
- Railroad
- Facility Management

Applications

Ideally suited for environments and applications where an extended read range is required and exposure to chemicals, mechanical abuse and temperature/weather extremes are common concerns.

Specifications

Physical	
Use Case	Both Metallic and Non-metallic Assets
Dimensions	53 x 20 x 4.5mm (2.08" x .79" x .18")
Material	PCB/FR4 Industrial Resin PU, Rigid
Attachment	High Performance Acrylic Adhesive specifically for Metal and Painted Metal Surfaces

Electrical/RF Typical	
Read Range* RF Protocol	On metal up to 5m (16.4 ft) Other materials up to 2.5m (8.2 ft)
Operating Protocol	UHF, EPC Class 1 Gen 2, ISO 18000-6C 902 - 928 MHz (U.S. Band)
IC Platform	Alien Higgs-4 or Impinj Monza R6-P
IC Memory	128 bit EPC

Environmental	
Ingress Protection	IP68
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Application Temperature	-35°C to 85°C (-31°F to 185°F) 241 Bar Water Pressure Washer (3500 PSI Water Pressure Washer)
Shock and Vibration	MIL STD 810-G
Washing resistance	Tolerates industrial washing with standard solvents. It should be tested in final application.

SmartX Part Number	SMTX5320M
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*Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power. Different surface materials may have an effect on performance.

For additional information and technical support contact SmartX Technology Inc.

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