

SMTX SERIES

SMTX-4818A™

SMTX-4818A is the product of response to customer demand for a special premium synthetic RFID label product with strong adhesive that can be used in harsh and industrial environments. The tag substrate is durable and is made with a laminated print process to support applications demanding a tough, high-performance material that withstands 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, office and non-metallic asset management applications.



Overview

The SMTX-4818A tag provides an effective solution for office equipment tracking, light outdoor asset management and managing assets in transit.

Other benefits include a more efficient use of resources such as: facilitating a switch to more efficient hardware when it becomes available, deactivating less efficient assets faster, and more accurate inventories and automated security routines.

This special long-form, rugged tag features an impressive, 5+ meters read-range when mounted on non-metal assets and carries up to a 3-year life expectancy. Premium label for plastic assets.



Features & Benefits

- Performs RFID reliably on non-metallic asset surfaces
- 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
- Good water resistance
- Supplied with high performance acrylic adhesive surface energy plastics
- 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

- Office Asset Inventory
- Healthcare Asset Management
- Retail Asset Tracking
- Equipment Rental
- Manufacturing & Automotive
- Agricultural Plastic Cases

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	Non-metallic Industrial or Office Assets
Dimensions	48 x 18 mm (1.9" x .71")
Material	Printing on 250 Micron synthetic paper and hot laminating on 180 Micron polyester up to 180° C
Attachment	High Performance Acrylic Adhesive

Electrical/RF Typical	
Read Range* RF Protocol	Up to 5m (up to 6m @ 45°) Up to 19ft (up to 23ft @ 45°)
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	IP66
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	SMTX4818
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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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