



SYNOTag | **Active**™

SMTSH-10x Read/Write Active RFID Temperature Sensor

2.4 GHz Active RFID read/write tag with embedded temperature sensor. Tag has log function to store temperature information in its default 32KB memory. Can be used in applications such as cargo and shipping containers, trucking or other places where temperature data needs to be collected over a long distance.

Specifications

Electronic

- ▶ Modulation: Uplink/Downlink GFSK
- ▶ Communication Rate: Uplink/Downlink 1000kbit/s
- ▶ Frequency: 2.4 - 2.4835 GHz
- ▶ RF power output: 0dBm
- ▶ Sensitivity: -80~ -90dBm
- ▶ Bit Error Rate: 10⁻⁶
- ▶ EMI: 10V/m 0.1~1000 MHz AM electromagnetic wave
- ▶ Tag transmits signal to reader every 300ms - 500 ms



Product Warranty: SYNOMETRIX offers a standard 1 year repair or replace warranty from date of shipping on all products found to have a defect that results from manufacturing.

Environmental

- ▶ Temperature: -40 to 80C (Operating) -60 to 85C (Storage)
- ▶ Humidity: 100% Non-condensing
- ▶ Vibration & Shock: 10~2000 Hz 15g 3 axial
- ▶ Anti-electromagnetism: 10V/m 0.1~1000 MHz
- ▶ Battery Life: 3.0V lithium cell 6-8 years (10 years optional)
- ▶ Free Drop: 1M Concrete floor, twice per side
- ▶ Dimensions: 86mm x 54mm x 5mm
- ▶ Weight: 30 grams

Part Numbers

- ▶ SMTSH-101: temperature readings within 0.1 degree centigrade
- ▶ SMTSH-102: temperature readings within 0.5 degree centigrade
- ▶ SMTSH-103: temperature readings within 1.0 degree centigrade

SMTSH-10x Active RFID Tag

Visit us at www.synometrix.com or email us at info@synometrix.com

SYNOTag™ | **RFID**

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