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Features

- Support temperature, vibration, ambient light, humidity, GPS data logging
- All-in-one design: built-in HF RFID sensor, data logger and USB 2.0 Disk
- Maximum storage: 134 million of data logging.
- Environment Monitor Ambient Light Monitor 13.56 MHz RFID, ISO15693 RF air protocol
 - Design for long term data recording
 - Fast and efficient wireless RFID for reading out the instant data
 - Support time-stamp
 - Configurable duration from 1 second to 12 hour for one record

RFID-TP-D-ST-R10 RFID-AL-D-ST-R10 RFID-HT-D-ST-R10 Model Number RFID-VB-D-ST-R10 RFID-GPS-D-ST-R10 RFID-STP-D-ST-R10 RFID-TP-N-ST-R10 Humidity and temperature Temperature sensor tag Vibration sensor tag plus Ambient light sensor Ttag GPS sensor tag plus data Slim RFID temperature RFID temperature sensor Function sensor tag plus data plus data logger data logger plus data logger logge sensor plus data logger tag loaaer Frozen food Transportation quality Frozen food Frozen food Application Environment monitor Transportation tracking Environment monitor Environment monitor Machine abnormality Environment monitor Environment monitor Datalogger Yes Yes Yes Yes Yes Yes No Normal Used From -20°C to 60°C Range 0.5°C (max) from 0°C to Relative Humidity ±2%, 0.5°C (max) from 0°C to 0.5°C (max) from 0°C to Full scale ±8g Full scale 16000 LUX +65°C From 0% to 100% +65°C +65°C Output data rate 50Hz <3m Accuracy 1.0°C (max) from -40°C to Resolution ±4 LUX Temperature ±0.2°C 1.0°C (max) from -40°C to 1.0°C (max) from Max. resolution 3.9mg +125°C (-40°C to 125°C) +125°C - 40°C to +125°C 134,217,724 points 134,217,724 points 134,217,724 points 134,217,724 points 67,108,862 points 3423 points Max Storage 1 point (4GB) (4GB) (4GB) (4GB) (4GB) (107KB) NO Time stamp Yes Yes Yes Yes Yes Yes 1, 2, 5, 10, 15, 30 sec Record Interval 1, 2, 5, 10, 15, 30 min 50Hz 1, 2, 5, 10, 15, 30 min NA 1, 2, 3, 6, 12 hr 1. 2. 3. 6. 12 hr 1, 2, 3, 6, 12 hr 1, 2, 3, 6, 12 hr 1, 2, 3, 6, 12 hr Short flash once: recording Sh Indicator (LED) Short flash twice: error message NA PC Interface USB 2.0 mass storage device NA RFID ISO 15693, 13.56MHz ISO 15693,13.56MHz ISO 15693,13.56MHz Power Supply 4.0 to 5.5 VDC NA Battery Battery pack AA by 4 20mAh film battery inside N/A Water Proof IP20 IP20 IP20 IP20 IP20 IP20 IP20 FCC CLASS A Cerification Dimensions 12 cm x 8 cm x 3 cm 9.2 cm x 6.6 cm x 0.2 cm 9.2 cm x 6.6 cm x 0.1 cm $(L \times W \times H)$

HF RFID Sensor Tag Plus Data Logger

The HF RFID tag series is designed for long-term temperature, vibration, ambient light, humidity and GPS recording. It uses an SD card as a mass storage media which can continually store 134 million points (four gigabytes for a file) of temperature when using continuous power (such as using USB power adapters). If continuous power is not available, it can use a one time battery case or a rechargeable battery bank which may support one week to one month recording depending on the recording duration and the type of the battery. The recording period can be configured from one second to twelve hours for one recording event. Recording data is easily to be read from the USB port. The data stored on a file is called "RECORD. TXT", which is auto-generated and can be opened by Notepad or Excel directly.

Configure the Device

Specifications

Before using this device, the user has to setup the recording interval and synchronize the computer clock to the device. After finishing the data collection, use a USB cable to connect with a tablet or a laptop to read and analyze the data.

Setup the recording interval

Read out data

Data analysis

Check Highest & Lowest Temperature During Delivery

• This device implements a real-time clock which supports time-stamp function, and the user can use a RFID reader to read the highest and lowest temperature when the product is delivered from the starting point.

Use the MODAT-328/335/531 RFID reader to read the temperature to ensure the perishable product is not spoiled during delivery.



Applications and Industries

Data loggers are used in a wide variety of industries, especially in restaurants, catering, transportation and medical/vaccine storage. Basically, anywhere temperature is a critical factor in storage or transportation of goods, a temperature logger is useful. The RFID sensor tags data logger are ideal for keeping track of the following applications:

Freezing foods transportation

· Blood storage

- Dry ice storage and transportation
- Food fridges and freezers
- Vaccine fridges



Medical Storage



Vibration Sensor

Freezing Food Temperture Monitor

• Environment monitor

- · GPS tracking
- Machine abnormality



GPS Tracking

Combining IEI HF RFID sensor Tag series and RFID tag reader with QNAP NAS, IEI can offer a total solution for Environment monitor such as application on temperature, vibration, ambient light, humidity, GPS data logging.



Ordering Information

Part No.	Description
RFID-TP-D-ST-R10	Temperature sensor tag, data logger, 4GB storage, 0.5°C~1.0°C accuracy, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-VB-D-ST-R10	Vibration sensor tag, data logger, 4GB storage, ±3.9mg accuracy, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-AL-D-ST-R10	Ambient light sensor tag, data logger, 4GB storage, ±4 LUX accuracy, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-HT-D-ST-R10	Humidity and temperature sensor tag, data logger, 4GB storage, relative humidity ±2%, temperature ±0.2°C, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-GPS-D-ST-R10	GPS sensor tag, data logger, 4GB storage, <3m accuracy, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-STP-D-ST-R10	Slim temperature sensor tag, data logger, 107KB storage, 0.5°C~1.0°C accuracy, 13.56MHz, ISO15693, USB 2.0 interface, RoHS
RFID-TP-N-ST-R10	Passive temperature sensor tag, data logger, 0.5°C~1.0°C accuracy, 13.56MHz, ISO15693, RoHS

Optional Accessory List

Item	Part No.	Description			
Adapter power	63040-290013-000-RS	Adapter Power;Powertron;PA1015-050SIB260;PA1015-050SIB260-838 V0;;Vin:90~264VAC;13W; Erp(NO LOAD 0.3W),Wall Mount/Switchover plug;Vout:5VDC;USB;CCL;RoHS			0
Power bank	31603-000042-RS	Battery Pack;Li Ion;T-GEE;5811-TCTWMX312A;Maxcell;NA;6200mAH;3.8V;1S 2P; CCL;RoHS			
RFID tag reader	RFID-ST-RD-R10	RFID Sensor Tag Reader, 128x64 OLED, 107KB Storage, 13.56MHZ, ISO15693, USB 2.0 interface, 650mAh.	Adapter power	Power bank	RFID tag reader



Headquarters 威強電工業電腦 IEI Integration Corp.

No. 29. Zhongxing Rd., Xizhi Dist., New Taipei City 221, Taiwan TEL:+886-2-86916798/+886-2-26902098 FAX:+886-2-66160028 sales@ieiworld.com www.ieiworld.com

America IEI Technology USA Corp.

138 University Parkway, Pomona, CA 91768 TEL: +1-909-595-2819 FAX: +1-909-595-2816 sales@usa.ieiworld.com usa.ieiworld.com

China

威强电工业电脑 IEI Integration (Shanghai) Corp. 上海市闵行莘庄工业区申富路515号

515, Shen Fu Rd., Xin Zuang Industrial Develop Zone, Shanghai, 201108, China TEL:+86-21-3462-7799 FAX:+86-21-3462-7797

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