UHF RFID Handheld Reader TSL1128

Tyco Retail Solutions provides retailers with real-time visibility to their inventory and assets to help improve operations, optimize profitability and create memorable shopper experiences.

The TSL1128 from Technology Solutions UK Ltd. is a lightweight, hardware independent, high-power portable UHF RFID handheld reader. It allows retailers flexibility in choosing compatible mobile devices to create a cost-effective, high-performance RFID handheld platform supporting inventory intelligence use cases.

Designed to read and write EPC Class 1 Gen 2 UHF RFID tags, it communicates with mobile devices via Bluetooth® wireless technology and is available with an integrated 1D/2D barcode imager.

The TSL1128 features an RFID tag read range of up to 4.5m (14.5 ft.) in a rugged but lightweight form designed for retail environments. It has been drop and tumble tested and is IP54 rated for resistance to dust and fluids.

Custom integrated mounts are available for most popular mobile devices and a universal mount option allows use with off-the-shelf protective cases.

The user replaceable battery has a typical life of 6+ hours and may be augmented with spares for heavy usage. An optional 4-slot external battery charger is available to support multiple units in high volume operations.

When paired with an iOS mobile device, the TSL1128 reader can use Tyco's TrueVUE™ Retail Platform to drive inventory accuracy, the key fundamental for omni-channel excellence and the basis for optimized merchandise planning and allocation.

When paired with TrueVUE software, TSL1128 devices can be used for:

- Rapid inventory cycle counting
- Reading and writing RFID tags
- Locating products using Geiger counter mode with audible feedback
- Receiving and transferring merchandise

Retailer Values

// Leverages TrueVUE's Inventory Intelligence solution to drive increased revenue, employee productivity and customer satisfaction

// Protects your investment in Bluetooth® enabled mobile devices deployed for other retail tasks

// Its retail tested rugged design is competitively priced when compared with similarly featured devices

// Mobile device user inteface is familiar to store associates, reducing training requirements

Product Codes

TSL1128-EU
1128 Bluetooth UHF RFID Reader (ETSI)

TSL1128-NA
1128 Bluetooth UHF RFID Reader (FCC)

TSL1128-2D-EU
1128 Bluetooth UHF RFID Reader (ETSI) with 1D/2D imager

TSL1128-2D-NA
1128 Bluetooth UHF RFID Reader (FCC) with 1D/2D imager

Options
Mobile Device Mounts

- iPhone 4th gen.
- iPhone 5th gen.
- iPod 4th gen.
- iPod 5th gen.
- iPhone 6
- iPhone 6 Plus
- Universal Connection

TSL1136-4CHG
4-Slot Easy Pack Battery Charger

Product Compatibility

TrueVUE Software

EPC Gen2 standard RFID Tag

Sensormatic AM/RFID 2D Barcode Tag

Specifications

Length

Trigger Handle............. 16.0 x 7.7 x 16.9cm

(6.3 x 3.03 x 6.6in)

Weight 380g (13.4oz)

(including battery & trigger handle)

Power .... Removable, Rechargeable

4.2 volt Lithium Polymer

2200 mAh battery pack,

8.4 watt hrs

Input Power

MicroUSB connector ....5V / 1A

Environmental Constraints

Operating Temperature

-20°C to 60°C (-4°F to 140°F)

Charging Temperature

5°C to 40°C (41°F to 104°F)

Storage Temperature

-40°C to 70°C (-40°F to 158°F)

Humidity

5% to 95% non-condensing

Performance Characteristics

RFID engine

TSL custom module with embedded Impinj R2000

Communication protocols

TSL ABC (Parameterized ASCII command set) and Impinj binary

Memory

Supports up to 32 GB Micro SD/SDHD Card

Compatible Host devices (Bluetooth®)

Host device must have Bluetooth® wireless technology functionality.

Bluetooth Wireless Technology

Bluetooth

Bluetooth Version 2.1

Apple iAP

Bluetooth Class

Class 2 - 10m (32.8ft) range

RFID Performance

Standards supported

EPC Class 1 Gen 2

Nominal read range

Up to 4m (13ft)

Nominal write range

Up to 1.22m (4ft)

Antenna

Detachable, Circularly Polarized with optional 2D scanner

Frequency Range

EU: 865-868MHz

US: 902-928MHz

Output Power

10mW to 800mW

Barcode Scanning

Imager:

SE4500 2D imager

Sensor Resolution

752 x 480 pixels

Field of View

Horizontal: 40°, Vertical: 25°

Focal Distance

SR: 203.2mm (8in)

DL: 134.62mm (5.3in)

HD: 73.66mm (2.9in)

Symbologies Supported

1D: All major codes

2D: PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal Dutch Postal (KIX)

Charging

External interface

MicroUSB connector for battery charging and USB connectivity

Optional desktop charger

TSL 1136 4-Slot battery charger

Regulatory

Country Availability

Approved for use in the US, Canada, Europe

Electrical Safety

Certified to UL60950-1, CSA C22.2 No.60950-1, IEC 60950-1, EN 60950-1

EMI/RFI

USA: FCC Part 15

Canada: ICES 003 Class B

EU: EN 301 489-3, EN 301 489-1, EN 301 489-17, EN 302-208, EN55022 Class B, EN55024

Laser Safety

IEC Class2/FDA Class II in accordance with IEC60825-1/EN60825-1, 21CFR1040.10

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