1097 *BLUETOOTH*® UHF RFID AND 2D BARCODE WEARABLE HAND SCANNER
PLATFORM INDEPENDENT, HIGH PERFORMANCE UHF RFID READER

Bluetooth®

Features and Benefits

The 1097 *Bluetooth*® UHF RFID and 2D Barcode Wearable Hand Scanner is capable of reading and writing to EPC Class 1 Generation 2 (ISO 18000-6C) transponders and (optionally) 1D/2D barcodes. The scanner is battery operated and communicates with a host computer wirelessly via a standard *Bluetooth*® wireless technology interface (optional Wi-Fi interface build option available).

The hand scanner is compatible with devices running Android, Windows XP/Vista/7/8, Windows CE, or Windows Mobile 5/6/6.5 (the host device must have *Bluetooth*® wireless technology functionality). The *Bluetooth*® interface enables the operator to use the scanner up to 100m from the host computer.

Built for tough environments

The lightweight construction and ergonomic design of the 1097 *Bluetooth*® UHF RFID and 2D Barcode Wearable Hand Scanner allows dexterity to be maintained in challenging environments, whilst the rugged design of the scanner means that it can withstand multiple drops of up to 1.3m (4.26ft) to concrete.

The (removable) Li-Polymer rechargeable battery pack provides long run times. The hand scanner has LED, buzzer and vibrator read indicators.

A software development kit (SDK) is available for development of customer applications.

Features:

High Performance *Bluetooth*® Multi-modal Data Capture
UHF RFID and (optional) 2D barcode data capture in one integrated *Bluetooth*® wireless technology device.

Hardware Platform Independence
Operates with wide variety of *Bluetooth*® wireless technology enabled host devices including touchscreen MP3 players, phones, tablets, Enterprise Handhelds and PCs.

OS Independence
Operates with Windows Mobile, WinCE, Windows XP, 7, 8 and Android.

High Performance barcode scanning
Integrated Motorola SE4500 imaging engine provides class leading barcode scan performance via its unique patent pending fast pulse illumination which delivers outstanding motion tolerance and class leading 1D and 2D data capture.

SPECIFICATIONS

Physical Characteristics

Dimensions (max):	145mm × 88mm × 65mm (5.7"x3.5"x2.6")
Weight:	325g (11.5 oz)
Enclosure material:	GE Lexan Polycarbonate
Colour:	Grey/black
Material finish:	Sparked surface

UHF RFID Reader

Frequency:	865 – 928 MHz
RF Power:	10 - 800 mW (software controlled)
Antenna:	Integrated circularly polarised element.
Read Distance:	Up to 2m (6 feet) - (tag dependent)

Optical Barcode Reader

Bar code engine :	2D imager – SE 4500 OEM imager from Motorola – other OEM imager engines available

Environmental

Operating Temp.:	-20°C to +60°C (-4°F to 140°F)
Storage Temp.:	-40°C to +60°C (-40°F to 140°F)
Humidity:	Up to 90% Relative humidity Non Condensing
Drop Spec:	1.3m (4.26ft) to concrete, 6 drops per 6 sides over operating temperature; 1.5m (5ft) to concrete, 2 drops per 6 sides at ambient temperature 23°C (73°F)
Sealing:	IP54
Electrostatic Discharge (ESD):	+/-12kV air discharge, +/-8kV direct discharge
Construction:	RoHS compliant

Regulatory

Electrical Safety:	TBC
EMI/RFI:	TBC

PART NUMBERS

1097-01-ET-BT-UHF	ETSI variant, no optical engine
1097-01-FC-BT-UHF	FCC variant, no optical engine
1097-02-ET-BT-UHF	ETSI variant, 2D Imager installed
1097-02-FC-BT-UHF	FCC variant, 2D Imager installed

WARRANTY

The TSL 1097 reader is warranted against defects in workmanship and materials for a period of one year (12 months) from date of shipment, provided the product remains unmodified and is operated under normal and proper conditions.

Terms

The *Bluetooth*® word mark and logos are registered trademarks owned by *Bluetooth* SIG, Inc. and any use of such marks by Technology Solutions UK Ltd is under license. Other trademarks and trade names are those of their respective owners.

ABOUT TSL

TSL designs and manufactures both standard and custom embedded, snap on and standalone peripherals for handheld computer terminals. Embedded technologies include:

- RFID - Low Frequency, High Frequency & UHF
- *Bluetooth*® wireless technology
- Contact Smartcard
- Fingerprint Biometrics
- 1D and 2D Barcode Scanning
- Magnetic Card Readers
- OCR-B and ePassport

Utilizing class leading Industrial design, TSL develops products from concept through to high volume manufacture for Blue Chip companies around the world. Using the above technologies TSL develops innovative products in a timely and cost effective manner for a broad range of handheld devices.

CONTACT

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