

## 1097 Bluetooth UHF RFID and 2D Barcode Wearable Hand Scanner

### + *Features and benefits:*

- ✓ Reads 1D/2D bar codes as well as C1G2 UHF RFID tags
- ✓ High performance 2D imager – range of manufacturers engines available
- ✓ Long run time from Li Polymer rechargeable, removable battery pack
- ✓ Ergonomic, back of hand mounting strap option – removable for personalisation.
- ✓ Unique optional trigger handle accessory with additional 3x hi-cap battery in handle
- ✓ Light weight construction – 325g without handle, 550g with optional handle
- ✓ Batch mode for collecting data – 4Mb on board flash memory
- ✓ Communications with host device via Bluetooth v2.0
- ✓ Easy Bluetooth Pairing Wizard for automated pairing to host device
- ✓ SmartWedge software for easy data entry
- ✓ LED, buzzer and vibrator read indicators
- ✓ Bluetooth compatibility with Windows Mobile 5/6/6.5/CE and Windows XP/Vista/7
- ✓ Small footprint enclosure – 145(h) × 88(w) × 65(d) mm
- ✓ Software development kit (SDK) available for development of customer applications
- ✓ Ergonomic design allows dexterity to be maintained



Part No. 1097-01-ET-BT-UHF – no optical engine (ETSI)

Part No. 1097-01-FC-BT-UHF – no optical engine (FCC)

Part No. 1097-02-ET-BT-UHF – with 2D Imager (ETSI)

Part No. 1097-02-FC-BT-UHF – with 2D Imager (FCC)

- + The scanner is battery operated and communicates wirelessly with a host computer via a standard Bluetooth interface (optional WiFi interface – build option). The hand scanner is compatible with devices running Windows CE, Windows Mobile 5/6/6.5 or Windows XP/Vista/7 (the host device must have Bluetooth functionality). The Bluetooth interface enables the operator to use the scanner up to 100m from the host computer.
- + The UHF reader supports reading and writing to EPC Class 1 Generation 2 (ISO 18000-6C) transponders.
- + For operation in Europe (ETSI EN 302 208), including Dense Reader Mode Capability.
- + The scanner has audible, visual and vibrator indication of a read.
- + The device can be flash upgraded.
- + The design incorporates a 2D imager for reading 1D/2D barcodes
- + Full configuration of the device via Desktop application OTA
- + SmartWedge software for Windows Mobile devices enables easy integration with form based applications supporting most of the commonly used Control characters.
- + Software Development Kit (SDK) available to enable rapid custom application development.

**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 bar code reader**

Bar code engine	2D imager – <a href="#">SE 4500 OEM imager from Motorola</a> – other OEM imager engines available
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### Physical Characteristics

Dimensions (maximum):	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

### Environmental

Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Storage Temperature	-40°C to +60°C (-40°F to 140°F)
Humidity	Up to 90% Relative humidity Non Condensing
Drop specification	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	+/-12kV air discharge, +/-8kV direct discharge
Construction	RoHS compliant

### Regulatory

EMI/RFI	TBC
	TBC
Electrical Safety	TBC



**+ 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 and UHF
- Bluetooth
- GPRS/GSM
- IrDA
- Contact Smartcard
- Fingerprint Biometrics
- 1D and 2D Barcode Scanning
- GPS
- 802.11 Wi-Fi
- 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.

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Rev 1.4 – 20<sup>th</sup> April 2011