



# 1101 UHF RFID READER FOR THE MOTOROLA MC70/75/75A SNAP-ON UHF RFID READER



## High Performance Upgrade

The 1101 UHF RFID Reader provides a UHF RFID upgrade path for Motorola MC70, MC75 and MC75A terminals. It snaps on to the bottom of the host terminal and uses the serial port for all data communications.

The reader supports reading and writing of EPC Class 1 Generation 2 (ISO 18000-6C) transponders, and has been designed for operation in European (ETSI EN 302 208) and US (FCC Part 15) regulatory environments, including Dense Reader Mode Capability.

The rugged design of the UHF reader means that it can withstand multiple drops of up to 1.3m (4.26ft) to concrete.

## Independent Power

A rechargeable battery is included in the reader to avoid reducing the run time of the host terminal. The battery is normally charged in the reader, but can be swapped out in applications requiring continuous operation.

## Simultaneous Charging

The combined DC input and USB connector at the base of the unit socket enable simultaneous charging of both the UHF Reader battery and the MC70/75/75A battery, as well as ActiveSync with the host device.

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

## Features:

### High Performance antenna

Integrated circularly polarised antenna facing out from rear of reader (and host terminal)

### Simplicity

Reader snaps on to host terminal to provide "one piece, one charge" reader solution. Optional locking screws make the attachment semi-permanent.

### Long run time

10 hours on a single charge performing 3000 inventory cycles every hour

### Easy integration

SmartWedge software for Windows Mobile devices enables straightforward integration with form based applications, supporting most of the commonly used Control characters.

# SPECIFICATIONS

## Physical Characteristics

|                             |   |
|-----------------------------|---|
| Dimensions (max):           | 87mm × 135mm × 42mm (3.43"x5.31"x1.65") |
| Weight:                     | 295g (10.4 oz)                          |
| Enclosure material:         | GE Lexan Polycarbonate                  |
| Colour:                     | Grey                                    |
| Material finish:            | Sparked surface                         |
| Attachment to host terminal | Snap-on action with locking slides      |

## UHF RFID Reader

|                |   |
|----------------|---|
| Frequency:     | 865 – 868 MHz (ETSI version)<br>902 – 928 MHz (FCC version)                         |
| RF Power:      | 10 - 800 mW (10dBm to 29dBm) (software controlled)                                  |
| Antenna:       | Circularly Polarised radiating from the back plane of the reader and host terminal. |
| Read Distance: | Up to 2m (6 feet) - (tag dependent)   |

## 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 |
| Sealing:                       | Conformal coated electronics  |
| Electrostatic Discharge (ESD): | +/-15kV air discharge, +/-8kV direct discharge                            |
| Construction:                  | RoHS compliant  |

## Regulatory

|                    |  |
|--------------------|--|
| Electrical Safety: | IEC 60950-1:2005<br>UL60950 Second Edition   |
| EMI/RFI:           | EN 301 489-3 V1.4.1<br>EN 302 208 V1.3.1<br>FCC Rule Part 15.247<br>FCC Rule 15, Subpart B, Class B limits<br>Industry Canada – Certified to Specification RSS-210 |

# PART NUMBERS

|                |              |
|----------------|--------------|
| 1101-01-SO-UHF | ETSI variant |
| 1101-02-SO-UHF | FCC variant  |

# WARRANTY

The TSL 1101 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.

# ABOUT

## ABOUT TSL®



Technology Solutions UK Ltd (TSL®), part of HID Global, is a leading manufacturer of high performance mobile RFID readers used to identify and track products, assets, data or personnel.

For over two decades, TSL® has delivered innovative data capture solutions to Fortune 500 companies around the world using a global network of distributors and system integrators. Specialist in-house teams design all aspects of the finished products and software ecosystems, including electronics, firmware, application development tools, RF design and injection mould tooling.

TSL® is an ISO 9001:2015 certified company.



ISO 9001: 2015

## CONTACT

**Address:** Technology Solutions (UK) Ltd, Suite A, Loughborough Technology Centre, Epinal Way, Loughborough, Leicestershire, LE11 3GE, United Kingdom.

**Telephone:** +44 1509 238248

**Fax:** +44 1509 214144

**Email:** [enquiries@tsl.com](mailto:enquiries@tsl.com)

**Website:** [www.tsl.com](http://www.tsl.com)

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