



Snap-on UHF RFID Reader

1101 UHF RFID reader for the Motorola MC70/75/75A

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.

Product Specification

1101 UHF RFID reader for the Motorola MC70/75/75A

TSL 1101 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:	Sparkled surface
Attachment to host terminal:	Snap-on action with locking screws

UHF RFID Reader

Frequency:	865 – 868 MHz (ETSI version) 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 UL60950 Second Edition
EMI/RFI:	EN 301 489-3 V1.4.1 EN 302 208 V1.3.1 FCC Rule Part 15.247 FCC Rule 15, Subpart B, Class B limits 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 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
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 TSL

Telephone:	+44 (0)1509 238248
Fax:	+44 (0)1509 220020
	Technology Solutions (UK) Limited, Suite C, Loughborough Technology Centre, Epinal Way, Loughborough, Leicestershire, LE11 3GE. United Kingdom.
Email:	enquiries@tsl.uk.com



© Technology Solutions (UK) Ltd 2013. All rights reserved. Technology Solutions (UK) Limited reserves the right to change its products, specifications and services at any time without notice.