

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

+ **Features and benefits:**

- ✓ Reads and writes Class 1 Gen 2 UHF RFID tags
- ✓ Integrated circularly polarised antenna facing out from rear of reader (and host terminal)
- ✓ Long read range – more than 2m (6 feet) - (tag dependent)
- ✓ Programmable power control
- ✓ Removable Lithium Polymer battery pack allows reader to operate without affecting run time of host terminal
- ✓ Long run time – 10 hours on a single charge performing 3000 inventory cycles every hour
- ✓ Small footprint enclosure – 87mm(w) × 135mm max (l) × 42mm(d)
- ✓ Reader snaps on to host terminal to provide “one piece, one charge” reader solution
- ✓ Optional locking screws make attachment semi-permanent.
- ✓ Suitable for both MC70, MC75 and MC75A
- ✓ Software development kit (SDK) available
- ✓ SmartWedge software for easy data entry



Part No. **1101-01-SO-UHF (ETSI)**
1101-02-SO-UHF (FCC)

- + The UHF reader provides an 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. 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.
- + The UHF reader supports reading and writing of EPC Class 1 Generation 2 (ISO 18000-6C) transponders.
- + Designed for operation in European (ETSI EN 302 208) and US (FCC Part 15) regulatory environments, including Dense Reader Mode Capability.
- + SmartWedge software for Windows Mobile devices enables easy integration with form based applications supporting most of the commonly used Control characters.
- + Combined DC input and USB connector at base of unit socket enables simultaneous charging of UHF Reader battery and host MC70/75/75A battery plus Activesync with host device.

UHF RFID reader

Frequency	ETSI: 865 - 868 MHz FCC: 902.3 – 927.7 MHz
RF Power	10 - 800 mW (software controlled)
Antenna	Circularly Polarised radiating from the back plane of the reader and host terminal.
Read distance	More than 2m (6 feet) - (tag dependent)

Physical Characteristics

Dimensions (maximum): without host terminal	87(w) x 135 max (l) x 42(d) – 3.43" x 5.31" x 1.65"
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 screws

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
Sealing	Conformal coated electronics
Electrostatic discharge	+/-15kV air discharge, +/-8kV direct discharge
Construction	RoHS compliant

Regulatory

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
Electrical Safety	IEC 60950-1:2005 UL60950 Second Edition



+ About TSL

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

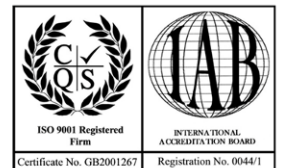
- RFID - Low Frequency, High Frequency and UHF
- Bluetooth
- GPRS/GSM
- IrDA
- Contact Smartcard
- Fingerprint Biometrics
- 1D and 2D Barcode Scanning
- GPS
- 802.11 Wi-Fi
- Magnetic Card Readers
- OCR-B and ePassport

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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