Snap-on UHF RFID Reader

1119 UHF RFID Reader for the Motorola MC55/65

Features and Benefits

The 1119 UHF RFID Reader provides a UHF RFID upgrade path for Motorola MC55 and MC65 terminals. It snaps on to the bottom of the host terminal and uses the serial port for all data communications.

The reader supports 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.

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.

Tough enough

The 1119 UHF RFID Reader's rugged design matches the capabilities of its host terminals. It has IP54 sealing and can withstand multiple drops of up to 1.2m (4ft) to concrete with the host terminal attached.

An extensive software development kit (SDK) is available for development of customer applications. SmartWedge software for Windows Mobile devices enables easy integration with form based applications supporting most of the commonly used Control characters.

Features:

High Performance

Integrated circularly polarised antenna provides long read range of up to 2m (6 feet) (tag dependent).

Long life

Long run time – 6 hours on a single charge performing an inventory cycle every 10 seconds. Removable Lithium Polymer battery pack allows the reader to operate without affecting run time of the host terminal.

One piece, one charge solution

Combined DC input and USB connector at base of unit socket enables simultaneous charging of UHF Reader battery and host MC55/65 battery plus ActiveSync with host device.

Compatibility

The reader remains compatible with existing MC55/65 accessories such as the single slot cradle and car charger

TSL 1119 Specifications

Physical Characteristics

Dimensions (max):	85mm(w) × 100mm (l) × 42mm(d) - 3.34" x 3.94" x 1.65" (without host terminal)
Weight:	160g (5.7 oz.)
Enclosure material:	GE Lexan Polycarbonate
Colour:	Black
Material finish:	Sparked surface
Attachment to host terminal	Snap-on action with locking slides

UHF RFID Reader

Frequency:	ETSI: 865 - 868 MHz FCC: 902 – 928 MHz
RF Power:	10 - 800mW (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.:	-10°C to +50°C (14°F to 122°F)
Storage Temp.:	-40°C to +60°C (-40°F to 140°F)
Tumble:	250 0.5m tumbles (500 drops)
Drop Spec:	1.2m (4ft) to concrete
Sealing:	IP54
Electrostatic Discharge (ESD):	+/-15kV air discharge, +/-8kV direct discharge
Construction:	RoHS compliant

Supported Operating Systems

Terminal	Supported OEM OS
MC5590	Windows Mobile 6.1, OS 3.38.0004 or higher Windows Mobile 6.5, OS 3.38.0004 or higher
MC55A0	Windows Mobile 6.5, OS 1.34.0005 or higher
MC55N0	Windows Mobile 6.5, OS 1.36.0017 or higher
MC659B	Windows Mobile 6.5, OS 2.31.0002 or higher

Regulatory

EMC and Radio:	EN 301 489-3 V1.4.1 EN 302 208-1 V1.4.1 FCC Part 15 Industry Canada RSS-210, ICES-003
Health and Safety:	IEC 60950-1: 2nd Edition 2005; Am 1:2009. EN 60950-1:2006 + A11:2009 + A12:2011 AS/NZS 60950.1:2011 UL 60950-1 Second Edition UL 60950-1 (CAN C22.2 CSA 60950-1) 2nd Edition, Amendment 1, December 19 2011. CAN/CSA-C22.2 No. 60950-1-07 (R2012)

Part Numbers

1119-01-SO-UHF	ETSI variant
1119-02-SO-UHF	FCC variant

Warranty

The TSL 1119 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

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