



Snap-on HF RFID Reader

1117 Multi-ISO HF RFID Reader for Motorola MC55/65



High Frequency upgrade

This snap-on accessory provides the Motorola™ MC55/65 terminal with High Frequency (HF) RFID functionality. The reader attaches as a snap-on to the Motorola terminal and houses both the RFID reader and the antenna. Power for the reader is obtained from the host terminal.

The HF RFID reader provides the ability to read and write to a wide variety of transponders at 13.56 MHz including ISO 15693, ICODE (I & II) and the complete Mifare family of ISO14443 (A&B). Flash upgradeability of the RFID reader firmware provides future proofing of the reader. The data output from the RFID reader may be simply incorporated into a Pocket PC application using the Software Development Kit (SDK).

Applications

Applications include: e-Payment, e-Toll Road Pricing, Authentication, e-Ticketing for Events & Public Transport, Logistics & Supply Chain Management.

The Reader is available individually or as an Explorer kit containing the reader, sample RFID tags and a Software Development Kit (which includes a demonstration application, the source code for that application and full reader documentation)

Features:

Multi ISO RFID reading & writing

Reads and writes to High frequency industry standard ISO 15693 smart labels including Texas Instruments Tag-it™ and Philips ICODE™ II ISO15693 at 13.56 MHz

SDK

Software development kit (SDK) available for development of custom applications

Compatibility

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

Connectivity

USB and MC55/65 charge connections are brought through to the base of the HF RFID reader to allow charging and ActiveSync over USB with the Reader attached

Easy attachment

Customer installable assembly - easily removed from handheld

Product Specification

1117 Multi-ISO HF RFID Reader for Motorola MC55/65

TSL 1117 Specifications

Physical Characteristics

Dimensions:	85×100×30mm (3.35"×3.93"×1.18")
Weight:	100g (3.35 oz)
Enclosure material:	Polycarbonate
Colour:	Black
Material finish:	Sparked surface
Mechanical attachment:	Snap-on action
Docking:	Attachment maintains dockability with Motorola docking cradle for charging and ActiveSync

HF RFID Reader

Frequency:	13.56MHz	
Supported RFID Standards:	ISO14443A, ISO14443B, ISO 15693, ISO 18000-3, ICODE	
Supported Tag-ICs :	Tag-it HF-I Tag-it HF-I Light S Philips ICODE SL2 Infineon ISO15693 MIFARE® Standard MIFARE® 4k MIFARE® Pro MIFARE® Ultralight MIFARE® DESFIRE MIFARE® SmartMX SLE 55Rxx SRF55VxxP +S SLE 66CL160S SLE 66CLX320P SR176	SRIX4K LRI 12 LRI 64 LRI 512 EM4135 KSW Temp Sense Sharp S ASK GTML ASK GTML2ISO TOSMART P064 Jewel Tag (IRT0302B11 KSW) ISO14443A Tags ISO14443B Tags ISO15693 Tags

RF Transmission Speed:	Up to 848 kBit/s
Read Distance:	Up to 8cm (3") using ISO7810 size credit card format transponders.

SAM support

SAM clock:	3.39MHz
SAM VCC:	5V
SAM type:	Form factor compatible with GSM SIM footprint

Current consumption

Current Consumption:	< 130 mA during RFID read < 65mA in idle mode < 35mA in standby mode
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User indication

Red, Green LEDs:	Flash indicating activity (function may also be customised)
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Connection Interfaces

Physical interface:	USB and power in to charge MC55/65
Reader power supply:	Powered from host terminal
ActiveSync:	via USB

Environmental

Operating Temp.:	-10 °C to +50 °C (14 °F to 122 °F)
Storage Temp.:	-40 °C to +70 °C (-40 °F to 158 °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

Electrical Safety:	Europe - EN60950-1 with CB Scheme Group and National Differences USA - UL60950-1
EMI/RFI:	EN 302 291-2, EN 301 489-3 USA/Canada - FCC Part 15(c) 15.225 / RSS-210

Part Numbers

1117-01-S0-MC65-RFID	1117 Multi-ISO HF RFID Reader for Motorola MC55/65
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Warranty

The TSL 1117 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.



Product Specification

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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.

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