







Snap-on LF RFID Reader

1134 Low Frequency RFID Reader for Motorola MC55/65

Dual LF Support at 125kHz / 134.2kHz

This snap-on accessory provides the MotorolaTM MC55/65 terminal with Low Frequency (LF) RFID functionality. The reader attaches as a snap-on to the base of the Motorola terminal and houses both the RFID reader and antenna.

The HF RFID reader provides the ability to read and write to a wide variety of Low Frequency transponders including ISO 11784, ISO 11785 and ISO 18000-2. Supported Manufacturer specific transponders include NXP (Philips) HITAG (1,2 and S), EM Microelectronic and Texas Instruments.

All power for the reader is supplied by the Motorola terminal, with the reader designed to minimise current consumption and maximise terminal run time.

The host terminal retains full bar code and wireless LAN functionality

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).

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 API documentation)



Features:

Low Frequency RFID reading & writing

Supports reading and writing (when supported by the transponder) to Low Frequency RFID tags, including those compatible with industry standards ISO 11784, ISO 11785 and ISO 18000-2

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 LF RFID reader to allow charging and ActiveSync over USB with the Reader attached

Applications

- Logistics
- Authentication
- Animal Tagging
- Time and Attendance

TSL 1134 Specifications

P	hys	ical	Cl	ıaı	rac	ter	ist	ics

Physical Characterist	tics
Dimensions:	85×100×30mm (3.35"x3.93"x1.18")
Weight:	95g (3.35 oz)
Enclosure material:	Polycarbonate
Colour:	Black
Material finish:	Sparked surface
Mechanical	Snap-on action
attachment:	•
Docking:	Attachment maintains dockability with Motorola docking cradle for charging and ActiveSync
LF RFID Reader	
Frequency:	125kHz, 134.2kHz
Supported RFID Standards:	ISO 11784, ISO 11785, ISO 18000-2
Supported Tag-ICs:	NXP HITAG 1, HITAG 2, HITAG S
	Sokymat Q5
	EM Microelectronics EM4x02, EM4x05 (ISO FDX B), EM4x50
	Texas Instruments 64bit Read Only, 64bit Read Write,
	1088bit Multipage.
Typical read time	HITAG 2 - 30ms
(serial number only):	HITAG S - 59ms
	EM4002 - 65ms
	EM4005 - 58ms
	EM4050 - 95ms 05 - 55ms
	Texas Instruments – 93ms
Host interface:	Serial interface on COM2 of MC55/MC65, ASCII or
nost interface.	Binary Protocols 9600bit/s to 115200bit/s 8,N,1.
Read distance:	Dependent on transponder type and antenna. Typically up to 8cm for Texas Instruments 32mm glass, up to 6cm for EM4102 30mm diameter disc.
Current consumption	1
Current Consumption:	< 100 mA during RFID read
	< 60mA in idle mode
	< 30mA in standby mode
User indication	
Red, Green LEDs:	Flash indicating activity (function may also be customised)
Connection Interface	s
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

RoHS compliant

Construction:

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 300 330-2, EN 301 489-3, FCC CFR47 Part 15(c), IC RSS210
Part Numbers	
1134-01-S0-MC65-LF- RFID	Low Frequency RFID Reader for Motorola MC55/65

Warranty

The TSL 1134 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.

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