

Multi-ISO HF RFID reader for Motorola MC75 Terminal

+ *Features and benefits:*

- ✓ Mounts on the base of the MC75 terminal
- ✓ Motorola MC75 retains full laser bar code functionality and wireless LAN
- ✓ RFID reader is powered from the host terminal
- ✓ Multi ISO RFID reading and writing at 13.56 MHz
- ✓ High frequency (HF) industry standard ISO 15693 smart labels including Texas Instruments Tag-it™ and Philips ICODE™ II ISO15693 – 13.56 MHz
- ✓ Support for full Mifare™ family of ISO14443 transponders
- ✓ Software development kit (SDK) available for development of custom applications
- ✓ Integrated SAM slot
- ✓ Customer installable assembly - easily removed from handheld but with the option of locking screws where a more permanent attachment is required.
- ✓ Compatible with existing Motorola single slot desktop docking/charging cradle.



- + The reader provides the Motorola™ MC75 with High Frequency (HF) RFID functionality. The HF RFID 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 MC75. 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).
- + The Reader is available as an Explorer kit which contains the reader, sample RFID tags, a Software Development Kit (which includes a demonstration application, the source code for that application and full reader documentation)
- + Applications include: e-Payment, e-Toll Road Pricing, Authentication, e-Ticketing for Events & Public Transport, Logistics & Supply Chain Management.
- + USB and MC75 charge connections are brought through to the base of the HF RFID reader to allow charging and ActiveSync over USB with the Reader attached.

Performance Characteristics

RF Transmit Frequency	13.56MHz
Supported RFID Standards	ISO14443A, ISO14443B, ISO15693, ISO18000-3, ICODE
Supported Tag-ICs :	<ul style="list-style-type: none"> ✓ 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 ✓ SR1X4K ✓ 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

Reading distance	Up to 8cm (3") using ISO7810 size credit card format transponders.
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RF Transmission Speed	Up to 848 kBit/s
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SAM support

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

Current Consumption	< 150 mA during RFID read
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	< 30mA in standby mode
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	0mA in shutdown 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 MC75
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Reader power supply	Powered from host terminal
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ActiveSync	via USB
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Physical Characteristics

Dimensions	90x82x32mm (3.54"x3.23"x1.26")
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Weight	95g (3.35 oz)
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Enclosure material	Grey Polycarbonate
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Material finish	Sparked surface
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Mechanical attachment	Snap-on action with optional locking screws
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Docking	Attachment maintains dockability with Motorola docking cradle for charging and ActiveSync
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Environmental

Operating Temperature	-10°C to +50°C (14°F to 122°F)
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Storage Temperature	-40°C to +60°C (-40°F to 140°F)
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Humidity	Up to 90% Relative humidity Non Condensing
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Drop specification	1.3m (4.26ft) to concrete, 6 drops per 6 sides over operating temperature; 1.5m (5ft) to concrete, 2 drops per 6 sides at ambient temperature 23°C (73°F)
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Sealing	Internal components conformal coated
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Electrostatic discharge	+/-15kV air discharge, +/-8kV direct discharge
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Construction	RoHS compliant
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