



## PREMIUM HF RFID CONTACTLESS MOBILE COMPUTER

# MC75A HF

### THE RIGHT MOBILE SOLUTION FOR TICKETING, IDENTITY AND ACCESS MANAGEMENT

Motorola's MC75A HF takes its place as one of the world's most proven premier mobile computers, with more features and functionality than any other device in its class. The MC75A HF starts with all the features and the same rugged design of the MC75A and adds an integrated HF RFID reader/writer for NFC contactless communication. The MC75A HF is the right contactless mobile solution for: public transportation, parks and event ticketing where closed-loop NFC transactions and payments can be processed; identity and access control with RFID-enabled cards, documents and passports; and asset tracking.



**Enable NFC communications and global closed-loop transactions and payments:** supports MIFARE™, FeliCa® and Calypso® (ISO 14443-A/B)

**Capture virtually any type of business data:** read HF RFID tags, scan any bar code, take a picture or a video or capture location data with the very latest in technology with Motorola MAX *Data Capture*

**7 devices in 1:** 3.5G world mobile phone, 2-way radio, HF RFID reader/writer, mobile computer, bar code scanner, high resolution digital camera and GPS all-in-one device substantially reduces the volume of devices you need to purchase and manage

**Cost-effective deployment of HF-based RFID applications:** use the MC70/MC75 accessories you already own

**Maximum reliability:** Motorola's signature rugged specifications for drop, tumble and sealing ensure reliable everyday operation

**Maximum security:** get government grade certified security support with the most advanced encryption and authentication protocols; high-performance Virtual Private Networks (VPNs) enable compliance with the toughest industry regulations, such as PCI and HIPAA

**Maximum power:** the most robust processing platform for blazing application performance

**True enterprise class motion sensing:** dynamic screen rotation and better management of battery power with Motorola MAX *Sensor*

**Unparalleled voice functionality and interoperability:** Motorola MAX *Voice* includes Motorola's Integrated Voice Solutions (IVS) for instant push-to-talk communications with other Motorola mobile devices; the ability to function as a deskphone, complete with 4 digit extension dialing and all deskphone features; and more

**More GPS coverage in more areas:** best-in-class Motorola MAX *GPS* delivers a faster and more accurate position, even in areas with a weak signal

**The most advanced display technology:** PenTile® 'RGBW' technology adds a white pixel to the traditional red, green and blue for richer, crisper text and graphics that are easier to read

**Easy and low-cost device management:** works with Motorola's leading management software, Mobility Software Platform (MSP)

**The most accessories:** expands device functionality, protects your investment and minimizes total cost of ownership (TCO)

**Service from the Start with Comprehensive Coverage:** get all-inclusive end-to-end protection against the unexpected (optional)

For more information, visit [www.motorolasolutions.com/mc75ahf](http://www.motorolasolutions.com/mc75ahf)

# SPECIFICATIONS CHART

## PHYSICAL CHARACTERISTICS

Dimensions	7 in. L x 3.3 in. W x 1.9 in. D 17.78 cm L x 8.4 cm W x 4.8 cm D
Weight	16.5 oz./467 g (including standard battery)
Display	Super bright 3.5 in. color VGA (640x480) super bright 650+ NITS (luminous)
Touch Panel	Glass analog resistive touch
Battery Options	Rechargeable Lithium Ion 3.7V, 3600 mAh or 4800mAh Smart Battery
Expansion Slot	microSD slot with SDHC Support (up to 32GB)
Comm. Interface	Ethernet (via cradle); full-speed USB, host or client
Notification	Vibrator and LED
Keypad Options	Numeric; QWERTY
Audio	VoWWAN; VoWLAN; TEAM Express compliant

## PERFORMANCE CHARACTERISTICS

CPU	PXA320 @ 806 MHz processor
Operating System	Microsoft® Windows Embedded Handheld
Memory	256MB RAM; 1GB Flash
Interface	RS-232, USB 1.1

## USER ENVIRONMENT

Operating Temp.	14° F to 122° F/-10° C to 50° C
Storage Temp.	-40° F to 158° F/-40° C to 70° C (w/o battery)
Humidity	95% non-condensing
Drop Spec	Multiple 6 ft./1.8 m drops, per MIL-STD 810 specifications.
Tumble Specification	1,000 1.6 ft./0.5 m tumbles (2,000 drops); per applicable IEC tumble specifications
Sealing	IP54 per applicable IEC sealing specifications
IrDA	Infra-red port for connection to printers and other devices
Electrostatic Discharge (ESD)	±15kV air discharge, ±8kV direct discharge

## BATTERY PERFORMANCE

Standby Time	150 hours
Talk Time	5 hours

## SECURITY CERTIFICATION

Certified compliant with FIPS 140-2
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## WIRELESS WAN DATA AND VOICE COMMUNICATIONS

WWAN Radio	GSM: HSDPA
GPS	Integrated, Autonomous and Assisted-GPS (A-GPS) through SUPL; SiRFstarIII

## WIRELESS LAN DATA AND VOICE COMMUNICATIONS

WLAN Radio	Tri-mode IEEE® 802.11a/b/g with the same performance and security protocols as the MC75A Series
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## WIRELESS PAN DATA AND VOICE COMMUNICATIONS

Bluetooth	Class II, v2.1 with Enhanced Data Rate (EDR)
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## RFID SPECIFICATIONS

RFID Radio	13.56 MHz
Read Range	0-1.96 in./0-5 cm
SAM Slots (2)	ISO 7816 compliant for encryption keys
Supported Card Types	<i>ISO 14443-A:</i> MIFARE™ (Classic, UltraLight, DESFire) <i>ISO 14443-B:</i> Calypso® (GTML, GTML2, CD21, CD Light, CDS3, CD97, CD97BX, TanGO, Celego-Citi, CT2000), ASK CTS256 and CTS512, STMicroelectronics SRI FeliCa® <i>ISO15693:</i> NXP I.Code SLI, TI Tag-it

## COLOR CAMERA

Camera Module	3.2 megapixel autofocus with flash
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## 2D IMAGER ENGINE (SE4500-SR)

Same high performance Imager as the MC75A
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## MOTOROLA INTERACTIVE SENSOR TECHNOLOGY

Motion-sensor: 3-axis accelerometer that enables motion-sensing applications for dynamic screen orientation, power management and free-fall detect

## PERIPHERALS AND ACCESSORIES

See [www.motorola.com/mc75ahf](http://www.motorola.com/mc75ahf) for a complete list of accessories

## REGULATORY

Same regulatory information as the MC75A  
For countries outside USA, Canada, European Economic Area, Japan or Australia consult your local Motorola representative

## WARRANTY

The MC75A HF is warranted against defects in workmanship and materials for a period of 12 months from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions.

## RECOMMENDED SERVICES

Service from the Start with Comprehensive Coverage

