



ENTERPRISE MOBILE COMPUTER FR68

Today's mobile workforce requires a converged, well-styled, compact and ergonomic, yet rugged device. The Motorola FR68 has all these characteristics providing outstanding total cost of ownership (TCO).

The Motorola FR68 is the ideal partner for mission critical mobile business applications. The device is built on the Microsoft Windows Mobile 6.1 computing platform. Equipped with a wide 3.5G bandwidth,

the device has the capability to manage data, voice, video and auto-id capture. A user-accessible microSD slot enables upgrades for storage and third party accessories. Designed with rugged-drop specifications, it will thrive on the wear and tear of daily use in a wide range of vertical markets - retail, logistics, transportation and fleet management, healthcare, field sales, field force automation, track and trace, or public safety.

FEATURES

BUSINESS - ESSENTIAL RUGGEDNESS



WITHSTANDS TOUGH USE IN VARIETY OF ENVIRONMENTS.

Industry-leading drop test, and integrated antennas
Lightweight yet rugged, with 3 ft / 0.91 m drop to concrete.
Built for year-round use in nearly any environment.

3.5G WWAN HSDPA BROADBAND SUPPORT



HIGH PERFORMANCE WIRELESS BROADBAND VOICE AND DATA ANYWHERE IN THE WORLD

- Connection to most carriers worldwide
- Best in class cellular broadband throughput with up to 3 Mbps download

FEATURES (continued)

- Integrated voice and data services: allows workers to conduct a phone call while maintaining a data connection (where supported by carrier)

WLAN : 802.11 b/g

Reliable and cost-effective data connectivity within the enterprise.

WPAN : BLUETOOTH® V2.0

Wireless connectivity to modems, printers, headsets and more; provides improved security and additional profiles for expanded connectivity to more device types. In order for Bluetooth devices to communicate with one another, they must utilize the same Bluetooth profile.

1D LASER SCANNER (SE955)

Optimal for scan intensive operations. Vibrate alert mode ideal for noisy environment.

3.2 MEGAPIXEL AUTO -FOCUS FLASH -ENABLED COLOR CAMERA

- Autofocus provides superior image quality and provides greater application flexibility — including document capture
- User controllable LED flash enables workers to activate or de-activate the flash as needed
- Captures half and full page documents with ease

DIVERSE VARIETY OF APPLICATIONS

Large number of third party applications available on the Windows Mobile platform.

POWERFUL MICROPROCESSOR DESIGNED FOR MOBILITY:

Marvell PXA312 624 MHz desktop-like multimedia performance with lower power requirements.

MICROSOFT® OPERATING SYSTEM : WINDOWS MOBILE® 6.1 PROFESSIONAL

Increased interoperability with existing enterprise infrastructure, enhanced security features, more flexible development platform; improved mobile messaging collaboration.

INDUSTRY STANDARD FOR MOBILE MANAGEMENT

Microsoft System Center Mobile Device Manager.

128MB RAM/256MB FLASH

Generous memory space to enable robust performance for a wide range of applications.

ASSISTED GPS RADIO

Supports a wide range of value-add location-based services and applications.

QVGA COLOR SCREEN

Easy to view in any lighting; supports display of high resolution images including video and maps.

TOUCH SCREEN AND OPTIONAL KEYPAD FUNCTIONALITY

Allows multiple data input methods to maximize application functionality and serve user preference. Support for Asian language keypads.

MULTIPLE VOICE MODES : HANDSET , HEADSET AND SPEAKER PHONE

Versatile - able to use the right mode at the right time. Flexible voice communication options to meet the needs of any business environment.

IRDA

Connectivity to legacy printers and other business equipment.

USER ACCESSIBLE MICRO SD SLOT (SDHC COMPLIANT)

Provides additional memory and expandable functionality.

BATTERY OPTIONS

Choice of standard capacity or extended capacity batteries.

COMPREHENSIVE ACCESSORY SUITE

The Motorola FR68 incorporates its own accessory suite and re-uses the MC75 battery and cradle offerings.

BACKWARDS COMPATIBLE WITH MC75 CHARGING CRADLE

Provides protection for existing investments.

PRODUCT SPEC SHEET
FR68

PHYSICAL CHARACTERISTICS

Dimensions	Standard Battery: 5.57 in L x 2.59 in W x 0.93 (1.06) in D 141.5 mm L x 65.9 mm W x 23.5 (27) mm D Depth is 23.5 mm with a 1950 mAh battery and 27 mm with a 3600 mAh battery
Weight	Standard 1X battery: 8.89 oz./ 252g Standard 1.5X battery: 9.88 oz./ 280g
Display	Transflective color 2.8" full QVGA with backlight, 320 x 240
Touch Panel	Glass analog resistive touch
Backlight	LED backlight
Main Battery	Rechargeable Lithium Ion 3.7V, 1950 mAh Battery
Ext. Cap. Battery	Optional 3.7V, 3600 mAh Battery
Backup Battery	Lithium battery (rechargeable) 25 mAh 3V (not user-accessible)
Expansion Slot	MicroSD slot (SDHC compliant)
Notification	Vibrate and LED
Keypad Options	52-key Qwerty in English, Japanese, Simplified Chinese and Traditional Chinese
Audio	Speaker, receiver, microphone, headset jack, software support for full duplex record and playback (mono)

PERFORMANCE CHARACTERISTICS

CPU	Marvell PXA312 624 MHz processor
Operating System	Microsoft Windows Mobile®6.1 Professional
Memory	128MB RAM; 256MB Flash
Interface	RS232, USB 2.0 client

USER ENVIRONMENT

Operating Temperature	14° F to 104° F/-10° C to 40° C
Storage Temperature	-22° F to 140° F/-30° C to 60° C (w/o battery)
Humidity	90% non-condensing
Drop Spec	3 ft. drop to concrete, 1 drop per 6 sides over operating temperature range
Tumble Specification	150 x 0.5 m tumbles (300 drops)
Sealing	MIL STD 810G (Rain - Method 506.5 Procedure III and Dust - Method 510.5, Procedure I)
IrDA	Integrated
Clock	Integrated real time clock
Light Immunity	Readability: Incandescent – 450 ft. candles; Sunlight — 8000 ft. candles; Fluorescent: 450 ft. candles
Electrostatic Discharge (ESD)	±12kV air discharge, ±8kV direct discharge

BATTERY PERFORMANCE

Standby Time	1X battery: 85 hours 1.5X battery: 150 hours
Talk Time	1X battery: 3 hours 1.5X battery: 5 hours

WIRELESS WAN DATA AND VOICE COMMUNICATIONS

WWAN Radio	EDGE or HSDPA
GPS	Integrated Assisted-GPS (A-GPS)

WIRELESS LAN DATA AND VOICE COMMUNICATIONS

WLAN Radio	Dual-mode IEEE®802.11 b/g
Data Rates Supported	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps (average 12Mbps)
Operating Channels	Channels 1-13 (2412-2472 MHz) Channels 14 (2484 MHz) Japan only Actual operating channels / frequencies depend on regulatory rules and certification agency
Security	WPA2, WEP (40 or 128 bit), TKIP, TLS, PEAP- TLS, PEAP (MS-CHAP v2), AES, LEAP (TTLS not supported)
Spreading Technique	Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM)
Antenne	Internal for LAN, External for WAN

WIRELESS PAN DATA AND VOICE COMMUNICATIONS

Bluetooth	Class II EDR v2.0; on-board chip antenna
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DATA CAPTURE SPECIFICATIONS

Options	1D laser scanner. Typical range on a 13 mil: 100% UPC - 90% MRD: 1.5 - 24 (in) / 3.81 - 60.96 (cm)
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COLOR CAMERA

Resolution	3.2 Megapixel
Illumination	User controllable flash
Lens	Auto focus

1D LASER SCANNER

Range on 100% UPCA	13 mil: 100%UPC - 90% MRD: 1.5 - 24 (in) / 3.81 - 60.96 (cm)
Resolution	4 Mil minimum element width
Roll	Condition: 100% UPC at 5 in. ±35° from vertical
Pitch Angle	Condition: 100% UPC at 5 in. ±65° from vertical
Skew Tolerance	Condition: 100% UPC at 5 in. ±50° from vertical
Ambient Light Immunity	10,000 ft. candles (107,640 lux)
Scan Rate	104 (±) 12 scans / sec (bi-directional)
Scan Angle	47° ± 3° (typical) / 35° ± 3° (narrow)

PRODUCT SPEC SHEET
FR68

PERIPHERALS AND ACCESSORIES*

Cradles	Single slot USB / cradle
Battery Chargers	4-slot battery charger
Electrical Safety	Certified to UL / cUL 60950-1, IEC / EN60950-1 EMI/RFI: USA: FCC Part 15; Canada: ICES 003 Class B; Europe: EN55022 Class B, EN 55024, EN 60601-1-2; Australia: AS/NZS CISPR A 22

For countries outside of USA, Canada, European Economic Area, Japan or Australia consult your local Motorola representative.

For a complete list of FR68 Peripherals and Accessories, please visit **www.motorolasolutions/SG-EN**

REGULATORY

Electrical Safety	Certified to UL / cUL 60950-1, IEC / EN60950-1
Environmental	RoHS-compliant
WLAN and Bluetooth	USA: FCC Part 15.247 EU: EN 300 328 Japan: ARIB STD-T33, ARIB STD-T66, ARIB STD-T71 Australia: AS/NZS 4268

QUAD BAND GSM / EDGE, PPLUS TRI-BAND HSDPA

Global	3GPP TS 51.010, 3GPP TS 34.121 USA: FCC Part 22, Part 24 EU: EN301 511, EN301 908 Australia : AS/ACIF S042
RF Exposure	RF Exposure: USA: FCC Part2, FCC OET Bulletin 65 Supplement C EU: EN 50360 Australia : Radiocommunication Standard 2003
EMI/RFI	North America: FCC Part 15, ClassB EU: EN 55022 ClassB, EN 301 489-1 EN 301 489-7, EN 301 489-17, EN 301 489-19, EN 301 489-24, EN 60601-1-2 Australia: AS/NZS CISPR A-22
Laser Safety	IEC Class2/FDA Class II in accordance with IEC60825-1/EN60825-1

MOTOROLA FR68 ACCESSORIES

- Single Slot/USB charging cradle with a bay for spare battery charging.
- Cradle adaptor clip - adapts FR68 mobile computer to the cradle.
- 4-Slot Battery Charger "Toaster" Kit. Charges spare standard capacity batteries.
- Hands free headset (earbud).
- Screen protector for 2.8" QVGA display, pack of 3.
- Spare stylus, pack of 3.
- Standard capacity spare battery 1900 mAh and battery cover door.
- Large capacity spare battery 3600 mAh and battery cover door.
- Auto Charge/Cigarette Lighter Adapter Cable.

For more information on how you can put the FR68 in the hands of your on-the-move workers, please visit us on the web at: www.motorolasolutions/SG-EN or access our global contact directory at: www.motorola.com/Business/SG-EN/Pages/Contact_Us

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