

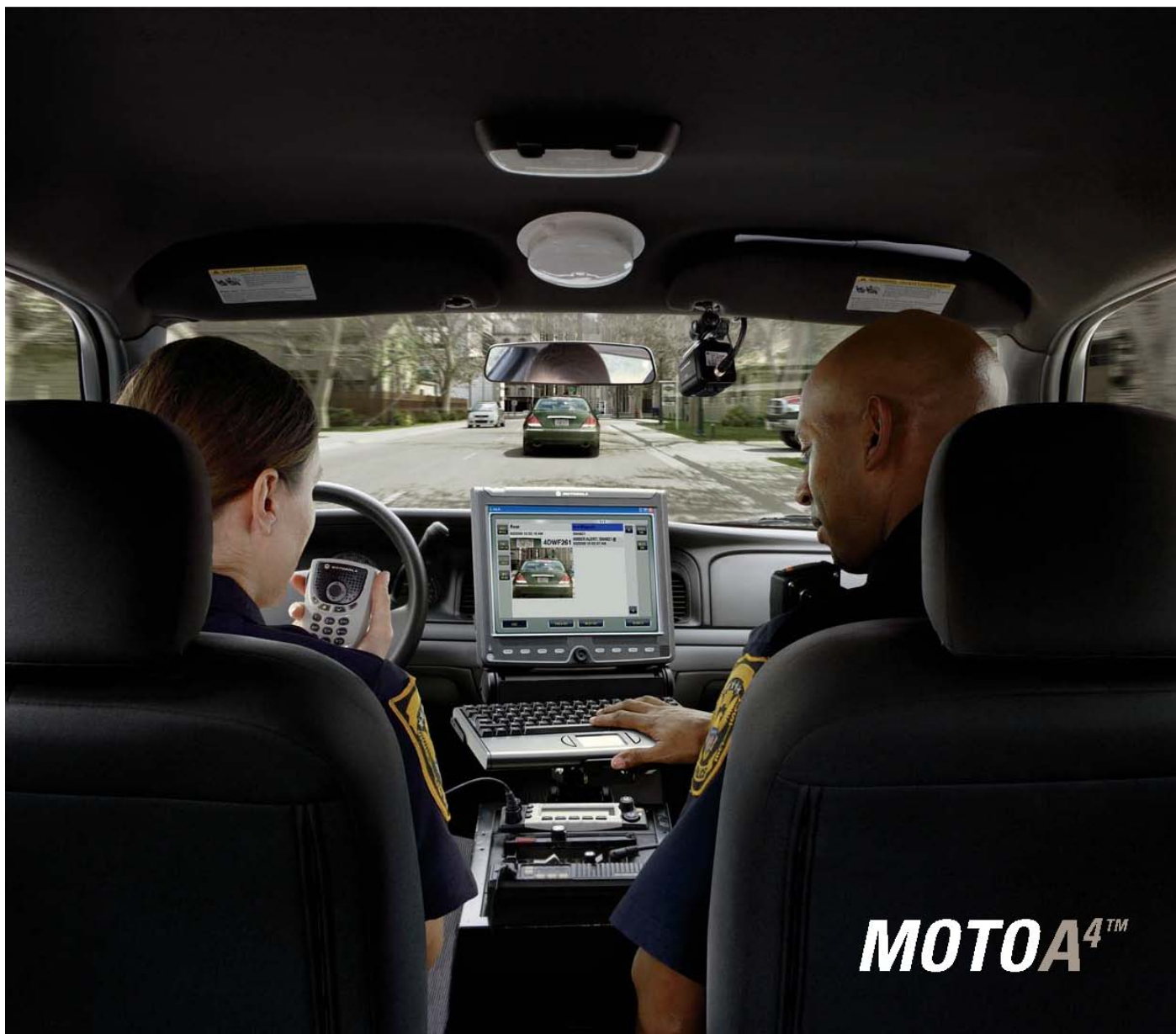


MW810 Mobile Workstation

Model F5208A

Field Support Kit

User's Guide



6802982C90-C

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Using This Manual

Before using this manual and products it describes, be sure to read the Safety instructions in MW810 Series, CPU and Display Owner's Guide documents.

Who Should Use this Manual

This manual is intended for staff who operate the MW810 Mobile Workstation (herein MW810) and need to configure, upgrade or maintain its CPU or display box, which is also referred to as either *CPU* or *Display* in this manual. This manual assumes the reader is familiar with the MW810 and basic Windows operations. If this is not the case, be sure to read the MW810 User's and Owner's guides and documentation that came with your version of Windows.

For documentation of supplied software applications, refer to the help file attached to each application.

Introduction to Manual

The manual is organized as follows:

- **Getting Started** - an overview
- **Taking a Look at the FSK** - components of the Field Support Kit tool and a brief functional description
- **Getting Assistance** - getting assistance from Motorola
- **Acronyms & Abbreviations**

Related Manuals

This manual describes the MW810 Field Support Kit (FSK) and provides basic operating instructions. Please note that although this manual refers to hardware and software components supplied with this product, it does not provide full component description. For additional information refer to the following documents:

- Motorola MW810 Mobile Workstation, Installation Manual - 6802982C80
- Motorola MW810 Mobile Workstation, User's Guide - 6802981C80
- Motorola MW810 Mobile Workstation, CPU Owner's Guide - 6802982C81 (MW810 R1.1) or 6802987C40 (MW810 R1.2)
- Motorola MW810 Mobile Workstation, Display's Owner's Guide - 6802982C85
- Motorola MW810 Mobile Workstation, Software Development Kit - 6802983C00

For documentation of software applications supplied with this product, refer to the help file attached to each application. This manual is designed to supplement the on-line help or on-line context-sensitive help installed with every software component. Please review this information to ensure proper use of the product.

If you need to change the configuration of your device, refer to

- Motorola MW810 Mobile Workstation, Maintenance Programming Software, User's Manual - 6802982C95

Conventions Used in This Manual

The following conventions are used throughout this manual:

<i>Italics</i>	Used for emphasis and for new terms.
Bold	Used to indicate keyboard keys or application buttons.

Getting Started

The Motorola MW810 Mobile Workstation (MW810) is a high-performance computing platform, optimized to deliver seamless mobility at highway speeds. Motorola's three-piece design allows flexible installation options, including choice and location of CPU configuration, display, and backlit keyboards.

- **Ruggedness**
Operates with confidence in mobile environments and under stressful conditions.
- **Fixed-Mount System for Vehicles**
Provides mobile connectivity and computing power for vehicle users. Internal GPS module options work with your applications to provide accurate vehicle location so you can manage your fleet and deploy resources more effectively.
- **Versatile Three-Piece Design**
Allows for flexibility and ease of installation in space-limited vehicles. Individual components can be purchased separately.
- **High Performance Displays**
Transmissive, high contrast display performs extremely well even in difficult lighting conditions. Display design enables shortcuts to the most important user functions.
- **Optimized for Wireless.**
Expanded wireless networking capabilities, including new internal cellular modem options, for better access to information.

The Motorola MW810 offers a range of integrated radios and GPS options so the vehicle user can stay connected via one or more wireless networks. Optional expansion boards provide a wide range of I/O ports to support external radios, dual displays, and peripheral devices. The backlit keyboard and display options offer outstanding performance even in the most difficult lighting conditions.

What is the Field Support Kit?

The Field Support Kit is a companion CD-ROM for the MW810 mobile workstation. That is an auto-run program for easy updating of unique software and firmware components that is running on Windows XP or Windows 7 operating systems. Use this CD-ROM when you need to upgrade the unique MW810 firmware or software or change the MW810 configuration and customize its operation in field.

The Field Support Kit CD-ROM is included in the MW810 package. You will find further information on the system, drivers, utilities, updates, manuals on this CD.

Launching the FSK Tool

The Field Support Kit requires the MW810 or compatible computer with the following minimum configuration:

- MW810 or compatible computer
- 512 MB memory (DRAM)
- 20 MB free hard disk space for installation
- Microsoft Windows XP or Windows 7 operating systems
- CD-ROM drive

If your CPU box does not have CD-ROM or DVD drive, connect USB CD-ROM drive to the CPU box. To launch the FSK tool insert the CD into CD-ROM drive - the Main screen automatically appears as shown next:



Select desired MW810 model where:

- **MW810 R1.0 or R1.1** - MW810 'Napa' platform with Windows XP or Windows Vista operating system
- **MW810 R1.2** - install or update the MW810 'Montevina' platform with Windows XP or Windows 7 operating system

When **MW810 R1.0 or R1.1** is selected the Main Menu screen automatically appears as shown next:



When **MW810 R1.2** is selected the Main Menu screen automatically appears as shown next:



Use the following buttons for easy navigation through and getting information about the FSK tool:

- **About** - information about this FSK tool
- **Next/Previous** - navigate to the next/previous FSK screen
- **Exit** - exit the tool

Taking a Look at the FSK

This chapter identifies the components of the Field Support Kit tool and provides a brief functional description. The tool is organized as shown next:

- **CPU Drivers** - install CPU software drivers
- **Special Drivers** - install model-dependent software drivers
- **Display Drivers** - install Display software drivers
- **Firmware Updates** - upgrade CPU and Display firmware components
- **.NET Framework** - install .NET framework (for MW810 R1.0 and R1.1 only)
- **Backward Compatibility** - ensure common functionality of MW800 displays with MW810 CPU
- **Documentation** - access to MW810 documentation
- **Browse CD Content** - access to the content of this CD-ROM

Each FSK function can be accessed through the click on appropriate button in above menu or sub-menus that are described below.

CPU Drivers

The **CPU Drivers** sub-menu provides installation of several OS drivers related to the MW810 CPU unit. The choices are shown next:

- **Chipset** - install or update Windows *.inf files
- **Graphics** - install or update the Intel graphics core
- **LAN** - install or update the software driver for Intel 10/100 Based-T Ethernet LAN module
- **MW810** - install or update the MW810 unique drivers and applications
- **Audio** - install or update the driver for integrated HD audio
- **TPM** - install or update the Trusted Platform Mode driver
- **.NET2.0 SP1** - install Service Pack 1 for .NET2.0 framework (for MW810 R1.0 and R1.1 only)

Select desired software component and click on the appropriate button - the MW810 Field Support kit will automatically install or replace selected software. Follow the on-screen instructions to continue and complete the process.

NOTE: Installation or update of the TPM and Sound drivers require manual user intervention. See the Manual Installation chapter for details.

Display Drivers

The **Display Drivers** sub-menu provides installation of several OS drivers related to the MW810 display unit. The choices are shown next:

- **Touch Screen** - install or update the software driver for the Gunze AHL-64SN touch panel
- **USB-RS232** - install or update drivers for the TI3410 USB-RS232 adapter
- **Bluetooth** - install or update the Bluetooth software for Broadcom BM-GP-BR-51 module

- **MW810 Utilities** - install or update the unique drivers and applications for MW810 CPU and display units

Select desired software component and click on the appropriate button - the MW810 Field Support kit will automatically install or replace selected software. Follow the on-screen instructions to continue and complete the process.

NOTE: Installation or update of the USB-RS232 driver requires manual user intervention. See the Manual Installation chapter for details.

Special Drivers

The **Special Drivers** sub-menu offers installation of several OS drivers that provide software interface to some optional hardware components. The choices are shown next:

- **LAN** - install the software driver for 10/100 Base-T Ethernet LAN modules
- **Wireless LAN** - install software for Intel PRO/Wireless 3945ABG network adapter
- **WWAN** - install or update software for Sierra Wireless radio
- **Video Capture** - install or update the software driver for video capture device
- **RS232 Exp** - install or update the software driver for Oxford RS232 expansion
- **Smart Card** - install or update the software driver for Smart Card reader
- **ALPR** - install or update the ALPR software

Select desired software component and click on the appropriate button - the MW810 Field Support kit will automatically install or replace selected software. Follow the on-screen instructions to continue and complete the process.

NOTE: Installation or update of the Video Capture and RS232 Exp drivers require manual user intervention. See the Manual Installation chapter for details.

Firmware Update

The **Firmware Update** sub-menu provides installation the CPU and Display firmware components. The choices are shown next:

- **8.4" Display EC** - install or update firmware for the 8.4" Display embedded controller
- **8.4" Display EC** - install or update firmware for the 8.4" Display video controller
- **12.1" Display EC** - install or update firmware for the 12.1" Display embedded controller
- **12.1" Display EC** - install or update firmware for the 12.1" Display video controller
- **CPU EC** - install or update firmware for the CPU embedded controller
- **BIOS** - install or update the BIOS

Select desired firmware component and click on the appropriate button - the MW810 Field Support kit will automatically install or replace selected firmware. Follow the on-screen instructions to continue and complete the process.

Documentation

The **Documentation** sub-menu provides an access to the MW810 manuals. The choices are shown next:

- User's Guide
- Installation Manual
- CPU Owner's Guide
- 12.1" Display's Owner's Guide
- 8.4" Display's Owner's Guide
- Software Development Kit
- Maintenance Programming Software, User's Manual

Manual Installation

Installation or update of several MW810 drivers requires manual user intervention. Follow steps below to complete the installation.

1. Right click on **'My Computer'**
2. For initial driver installation select
 - **'Manage → Device Manager → Other Devices → Multimedia Video Controller'** for Video Capture driver
 - **'Manage → Device Manager → Other Devices → Multimedia Audio Controller'** for Sound driver
 - **'Manage → Device Manager → Other Devices → PCI Serial Port'** for RS232 Expansion driver
 - **'Manage → Device Manager → Other Devices → TUSB3410 Boot Device'** for TI driver

For driver update select

- **'Manage → Device Manager → Sound, video and game controllers → Conexant CX23885 Video Capture'** for Video Capture driver
 - **'Manage → Device Manager → Sound, video and game controllers → SoundMAX Integrated Digital Audio'** for Sound driver
 - **'Manage → Device Manager → Multifunction adapters → OX16PCI1952 PCI UARTs'** for RS232 Expansion driver
 - **'Manage → Device Manager → Multi-port serial adapters → TUSB3410 Device'** for TI driver
3. Right click on **Update Driver**
 4. Choose **'No, not this time'**
 5. Choose **'Install from a list...'**
 6. Check the 'Include this location in the search' option
 7. Click **"Browse"** and open the following path of Support Kit CD:
 - **\Drivers\Common\Video Capturing** for Video Capture driver
 - **\Drivers\Common\HD Audio** for Sound driver
 - **\Drivers\Common\TPM** for TPM driver
 - **\Drivers\Common\CPU UART Expansion** for RS232 Expansion driver
 - **\Drivers\Common\Display UART** for TI driver
 8. Click **'OK → OK → Next'** and finish the installation
 9. Restart the unit.

Getting Assistance

For your convenience, the Motorola website provides up-to-date information about the MW810.

The Web address for the MW810 home page is www.motorola.com/MW810. This site includes general information about the device, as well as answers to questions regarding operational issues with the MW810.

For product-specific downloads search at <https://compass.motorola.com/go/323749890>. This site provides as follows:

- Recent software / application updates
- Updated embedded firmware for your computer
- The latest device drivers

Acronyms and Abbreviations

The following acronyms and abbreviations are used in this document:

ALPR	Automatic License Plate Recognition
BIOS	Basic Input/Output System
CD	Compact Disk
CD-ROM	Compact Disk Read-Only Memory
CDMA	Code Division Multiple Access
CPU	Central Processor Unit
DTE	Data Terminal Equipment
DVD	Digital Versatile Disc
FAQ	Frequently Asked Questions
HSPDA	High Speed Packet Downlink Access
LAN	Local Area Network
MPS	Maintenance Programming Software
MW	Mobile Workstation
OS	Operating System
RS-232	a standard for serial binary data interconnection
UMTS	Universal Mobile Telecommunications System
USB	Universal Serial Bus
WLAN	Wireless Local Area Network
WWAN	Wireless Wide Area Network



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