

Specification Sheet

MOBILE WORKSTATION 800 (MW 800) Series F5207 Displays and Keyboard



KEY FEATURES

DISPLAYS

- Impact-proof touch-screens
- Two Display Sizes: 12.1" and 8.4"
- User-Defined Programmable Buttons on Displays
- Integrated Bluetooth option on 12.1" Displays
- Integrated Emergency Button

KEYBOARDS

- Ruggedized, Backlit Keyboards
- English, French, Chinese and Hebrew versions
- Can be connected directly to the display.

Motorola continues its successful legacy of rugged, high-performance, well-connected computers with the Mobile Workstation 800 (MW 800). Ideally suited for the public safety, homeland security, military, transportation, utility, distribution, courier and manufacturing markets, the MW 800 combines Motorola's vast experience in technical innovation and wireless data communications.

The MW 800 displays and keyboards provide advanced features and functionality, yet are specifically designed for the rigors of the mobile environment. The 3-piece design of separated Central Processing Unit (CPU), display and keyboard allows for versatility and ease of in-vehicle installation.

The touchscreen displays are available in two sizes, 8.4" and 12.1", and benefit from 8-wire resistive technology which allows use with a stylus or gloved finger. The 12.1" XGA model boasts an impressive 1200 NIT (cd/m²) of backlighting illumination.

User-defined programmable buttons provides user interface flexibility; a separate, easily identifiable red Emergency button gives instant single-button access to assistance in emergency situations.

The touch-screen displays are also impact-proof, preventing glass splinters in the event of a collision.

All MW 800 Displays contain USB ports into which the keyboards or peripheral devices can be connected. This provides more flexibility if the computer (CPU module) is to be installed elsewhere in the vehicle.

Motorola also offers CPU-to-Display cables of various lengths to meet customer requirements while reducing in-vehicle clutter.

All MW 800 Keyboards are spill resistant and backlit illuminated. The integrated touch-pad and programmable function keys provide an operating environment similar to that of a laptop computer.

Through available MODS (Mobile Office Display Solution) packages, the MW 800 display and keyboards can be integrated with Motorola (or other) laptops providing an ergonomically efficient alternative to compact laptop interfaces.

For more information on the MW 800 Central Processing Unit (CPU), please refer to specification sheet R3-14-2009.

Additional information on the MW 800 can be found at:
<http://www.motorola.com>



The MW 800 Display and Keyboard pictured with the Central Processing Unit (CPU)

GENERAL SPECIFICATIONS

Physical Size (H x W x D)	
8.4" Display	7.1" x 9.1" x 1.69" (18.1 x 23.1 x 4.3 cm)
12.1" Display	10.6" x 12.2" x 2.2" (26.9 x 31 x 5.6 cm)
Backlit Keyboard	1.26" x 12.60" x 8.0" (3.2 x 32 x 20.3 cm)
Weight	
8.4" Display	3.3 pounds (1.5 kg)
12.1" Display	8.4 pounds (3.8 kg)
Keyboard	2.2 pounds (1.0 kg)

INPUT

Main Keyboard	QWERTY style layout (AZERTY for French versions), 85 total keys, 12 function keys, spill resistant, backlit illuminated, USB interface
Single Language	US English, UK English, French, Canadian French, Belgian French
Dual Language	US English+: Chinese or Hebrew
Pointing Device	Integrated Touch-Pad and Touch screen
Display Buttons	Illuminated, programmable function buttons: 6 on the 8.4" display 8 on the 12.1" display
Emergency Button	Dedicated illuminated emergency key located on the display module



8.4"
Display

COMMUNICATIONS/EXPANSION PORTS

USB 1.1	2x on 12.1" display 1x on 8.4" display
Sound	2x .5 W speakers w/adjustable volume on 12.1" display 1x .5 W speaker w/adjustable volume on 8.4" display

DISPLAY WITH THERMAL PROTECTION MECHANISM

LCD Type	Color Active Matrix, TFT transmissive
LCD Size	12.1" Diagonal XGA or SVGA 8.4" Diagonal SVGA
Resolution	1024 x 768 XGA LCD panel / 800 x 600 SVGA LCD panel
LCD Luminance	Standard SVGA 350 nit (cd/sq.m) High-bright XGA 1,200 nit (cd/sq.m)
Touch screen	8 Wire Resistive, tempered glass with anti-reflective coating, impact-proof

12.1"
Display



COMMUNICATION PROTOCOLS – INTERNAL RADIOS (OPTIONAL)

Bluetooth	Version 1.1 compatible (in 12.1" display) Supports data and voice profiles
------------------	---

ENVIRONMENTAL

Operating Temperature	-22 to 158°F (-30 to +70°C)
Storage Temperature	-40 to 158°F (-40 to +70°C)
Humidity	90 to 95% Relative humidity at 50°C after 8 hours

DURABILITY

Shock	20g peak 1/2 sine wave @ 11ms, 30 impacts
Vibration	Per TIA/EIA 603 Paragraph 3.3.4 and MIL-STD-810F method 514.5, Fig. 514.5C-1
Drip	Per MIL-STD-810F method 506.4 Procedure III
Dust Blowing	5 hours in dust (140 mesh silica flour) laden atmosphere, dust agitation time is for 2 seconds every 15 minutes
Salt Fog	8 hours, 5% Sodium Chloride at 35°C, MIL-STD-810F method 509.4
Flammability	Per UL94
Solar Radiation	7 cycles of 24 hours with no functional degradation per MIL-STD-810F, method 505.4, Procedure I
Shock Crash Hazard	75g, 6 ms per MIL-STD-810F method 516.5, Procedure V

ELECTRICAL ENVIRONMENT

Power Source	Vehicle Battery (12V, negative ground)	
Power Instability	13.8V DC \pm 20%, with no loss of functionality	
Electrical Transients	Meets ISO7637-1	
Power Consumption (at 13.8VDC)	On	Standby
12.1" XGA	2.8A	0.1A
12.1" SVGA	1.5A	0.1A
8.4" SVGA	1.4A	0.1A
Keyboard	0.5A	Max from the USB Port



MW800 keyboard

REGULATORY

United States	
Radiated Emission	FCC Part 15, Class B
Radio Acceptance	FCC Part 90, Part 22, Part 24
Safety	C-UL-US UL 60950-1
Canada	
Radiated Emission	ICES003 (equivalent to FCC Part 15, Class B)
Radio Acceptance	DOC RSS119
Safety	C-UL-US UL 60950-1
Europe	
Radiated Emission	EN55022 Class B
Radio Acceptance	ETS 300113
Safety	EN60950-1
EMC Immunity	EN55024
R&TTE	EN301489
eMark	Directive 72/245EC (95/54EC)
Australia	
Radiated Emission	AS/NZS 3548 (1995) Amendment 2-1997 CISPR 22
Safety	AS/NZS 60950

ACCESSORIES

Cables: 12.1" Display to MW800 CPU

Cables: 8.4" Display to MW800 CPU

Cables: *Secondary* Display to MW800 CPU

Cable: 12.1" Display to *Standard PC*

Cable: MW 800 CPU to Standard Screen

Cable: Line Filter (CE)

Cable: Line Out Adapter

Cable: 15-Amp Power Cable

Cable: USB Keyboard Extender

Cable: USB Expansion Port

Cable: MODS Adapter

External Speaker Cable Adapter



Motorola's Commercial, Government and Industrial Solutions Sector is a recipient of the prestigious 2002 Malcolm Baldrige National Quality Award. This honor demonstrates our commitment to performance excellence and quality achievement.

<http://www.motorola.com>



MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. All other product or service names are the property of their respective owners. The Bluetooth trademarks are owned by their proprietor and used by Motorola, Inc. under license.
©Motorola, Inc. 2005. (0503)

Specifications subject to change without notice.

