Specification Sheet

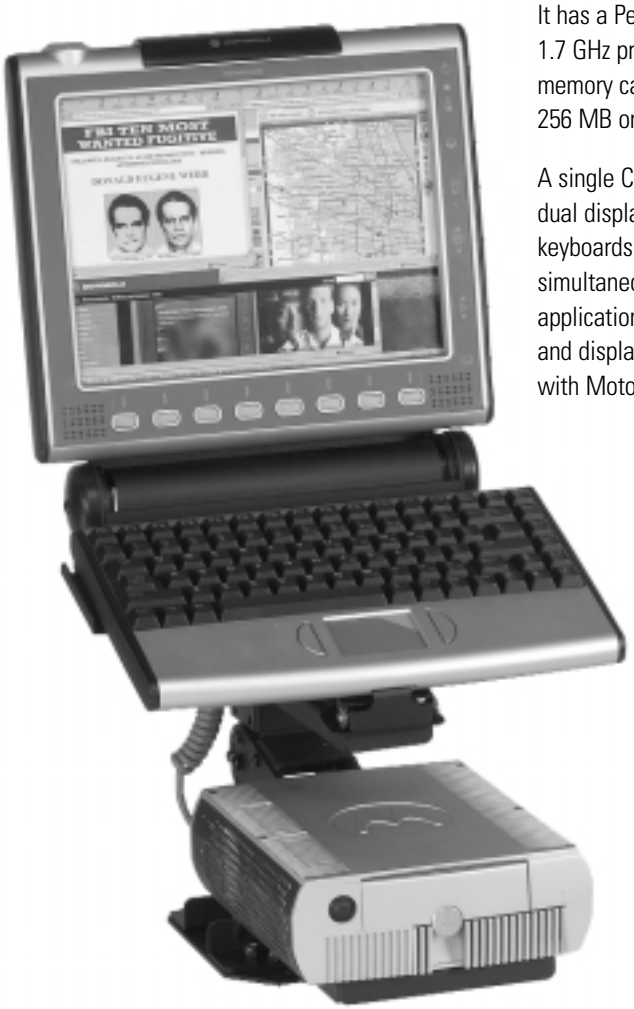
MOBILE WORKSTATION 800 1.7 GHz CPU Model F5206 Series

MOTOROLA
intelligence everywhere™

KEY FEATURES

- Pentium 4-M 1.7 GHz CPU
- 256 MB or 512 MB DDRAM memory available
- Video capture provides digital video recording capability
- Dual display functionality
- 3-D shock mounted removeable hard drive

With more than 75 years of technological innovations and 30 years of wireless data expertise, the MW 800 was built on Motorola's successful legacy of rugged, high-performance computers for public safety, homeland security, military, transportation, courier and manufacturing segments. And it is supported by Motorola, the trusted leader in integrated communication solutions.



The MW 800 is Motorola's most advanced mobile data computer. Loaded with high-speed processing power and high-level computing capabilities. Feature-rich, with all the easy functionality of a PC, but with modular components configured for use in any vehicle.

It has a Pentium 4-M 1.7 GHz processor and its memory can be either 256 MB or 512 MB.

A single CPU can support dual displays and keyboards and two simultaneous independent applications. The keyboard and display can be used with Motorola's rugged laptops and tablet computers and can be sold independently for use with third party computers.

The Mobile Workstation 800 also offers digital video recording capabilities allowing users to download/upload videos to a server. Look to Motorola to know the road and your requirements well. From fingerprints to mug shots, maps to Hazmat, the Mobile Workstation MW 800 was Motorola-designed and developed for the demands of your environment. It provides the mission-critical muscle you need to get the job done, wherever your mobile workforce goes.

For more information please go to the Motorola MW 800 web page:
http://mw800.motorola.com

GENERAL SPECIFICATIONS

Physical Size (H x W x D)	
CPU	2.74″ x 7.75″ x 9.45″ (6.95 x 19.7 x 24.0 cm)
Display	12.1″ x 12″ x 2″ (26.7 x 30.5 x 5.1 cm)
Backlit Keyboard	1.26″ x 12.60″ x 8.0″ (3.2 x 32 x 20.3 cm)
Weight	
CPU	7.7 pounds (3.5 kg)
Display	8.4 pounds (3.8 kg)
Keyboard	3 pounds (1.0 kg)

INPUT

Main Keyboard	QWERTY style layout, 85 total keys, 12 function keys, spill resistant, backlit illuminated
Pointing Device	Integrated Touch-Pad and Touch screen
Display Keys	8 illuminated programmable function keys
Emergency Button	Dedicated emergency key located on the display module

COMMUNICATIONS/EXPANSION PORTS

USB	3x (1 on CPU, 2 on display) USB 1.1 full speed and low speed	
Serial	3x RS-232 ports: 1 external, 2 internal for WAN and GPS support	
Ethernet	1x 100 BaseT both 10 & 100 MHz	
PC card Slots	External Type II and internal CF for WLAN radio	
Video Input	1, standard Composite video input (CVBS) port, (PAL or NTSC)	
Sound	2x .5 W speakers w/adjustable volume on display Line out for external speaker Built-in mic External mic in	
Primary Display Interface	Video: Audio Control:	RGB + USB 2-line out to speakers
Secondary Display Interface	Video: Audio Control:	RGB + USB 2-line out to speakers
Firewire	IEEE 1394	

COMPUTER

Processor	Intel Pentium 4-M 1.7 GHz
VGA Controller	16 MB internal video RAM
Video Capture	Conexant BT878A
Power Management	ACPI, Windows compatible. Supports standard power management modes, such as suspend and resume.
Mass Storage	Removeable Hard Disk: 20 GB with 3 dimensional Shock absorber, with heater (40 GB optional)
Internal Memory	Optional: 256 MB or 512 MB DDR SDRAM
Operating System	Supports Windows 2000 and XP Pro

DISPLAY WITH THERMAL PROTECTION MECHANISM

LCD Type	Color Active Matrix
LCD Size	12.1″ Diagonal XGA or SVGA
Resolution	1024 x 768 XGA LCD panel / 800 x 600 SVGA LCD panel
LCD Luminance	Standard 300 nit SVGA or High-bright 1200 nit XGA
Standard Touch screen	8 Wire Resistive

COMMUNICATION PROTOCOLS – INTERNAL RADIOS (OPTIONAL)

Private DataTAC	
Frequency	806-824 MHz Tx, 851-869 MHz Rx
Protocol	RD-LAP 19.2, RD-LAP 9.6
RF Power Output	1.8 Watt into 50-ohm load
GPRS	
Frequency	900 MHZ, 1800 MHz, 1900 MHz
Protocol	GPRS packet data
RF Power Output	2 Watts at 900 MHz 1 Watt at 1800 MHz and 1900 MHz
IDEN Packet Data	
Frequency	806-821 MHz Tx, 851-869 MHz Rx
Protocol	iDEN (25 kHz spacing)
RF Power Output	0.6 Watts (variable in 6 steps) into 50-Ohm load
GPS	Internal Trimble, SK II
WLAN	Cisco LEAP compatible
Bluetooth	Version 1.1 compatible

ENVIRONMENTAL

Operating Temperature	–4 to 122°F (–20 to +50˚C)
Storage Temperature	–40 to 158°F (–40 to +70˚C)
Humidity	90 to 95% Relative humidity at 50˚C for 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 514.4, Category I
Drip	Per MIL-STD-810F method 506.3 Procedure II
Dust Blowing	5 hours in dust (140 mesh silica flour), laden atmosphere dust agitation time is for 2 seconds every 15 minutes, per MIL-STD-810F
Salt Fog	8 hours, 5% Sodium Chloride at 35˚C, after exposure, per MIL-STD-810F 505.3, Procedure I
Flammability	Per UL94-HB
Solar Radiation	7 cycles of 24 hours with no functional degradation per MIL-STD-810F, 505.3, Procedure I
Shock Crash Hazard	75g, 6 ms per MIL-STD-810F method 516.4, Procedure V
Enclosures	IP 54 compliant

ELECTRICAL ENVIRONMENT

Power Source	Vehicle Battery (12V, negative ground)
Power Instability	13.8V DC ±20%, with no loss of functionality
Electrical Transients	Meets ISO7637-1
Safety	Per UL 1950

REGULATORY

FCC Information	**Acceptance Number**
GPRS Radio	IHDT6AC1
iDEN Packet Data Radio	AZ489FT5796
Private DataTAC	PQS-BM28001
WLAN	H9PLA4137
United States	
Radiated Emission	FCCPart 15,Class B
Radio Acceptance	FCC Part 90
Safety	UL1950
Intrinsic Safety	FM (UL913) Division 2, Class 1, Groups C & D)
Canada	
Radiated Emission	C108.8 (equivalent to FCC Part 15, Class B)
Radio Acceptance	DOC RSS119
Safety	CSA 22.2 – No. 950
Europe	
Radiated Emission	EN50081-1 (required: EN55022 Class B)
Radio Acceptance	ETS 300113
Safety	EN60950
EMC Immunity	EN50082-1
EMC	ETS-300279
+eMark	

ACCESSORIES

Secondary Displays (Bluetooth optional)	XGA or SVGA
	Standard or High-brightness
USB FDD	
USB Backlit Keyboard	
External Microphone	
CD / DVD-ROM	

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://mw800.motorola.com

MOTOROLA

R3-14-2009B