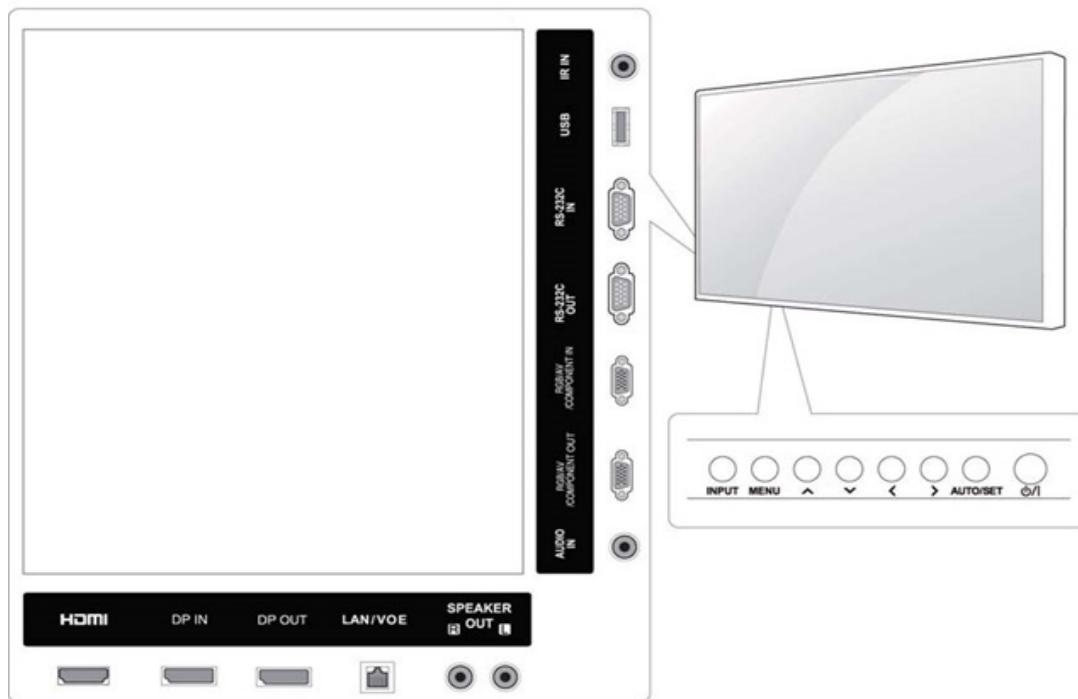


### Overview



#### Input/Output

##### Touch USB

Connects a touch USB cable from the computer to the display.

##### HDMI

Connects voice or audio input cable.

##### DP IN

Connects DisplayPort in cable to the display.

##### DP OUT

Connects DisplayPort out cable to the display.

##### LAN/VOE

Connects a local area network cable.

##### SPEAKER OUT

Connects optional external speakers to the display.

##### AUDIO IN

Connects an audio cable to the display.

##### RGB/VGA

Connects an RGB/VGA component out cable to the display.

##### COMPONENT OUT

Connects an RGB/VGA component in cable to the display.

##### RS-232C OUT

Connects an RS-232C out cable to the display.

##### RS-232C IN

Connects an RS-232C in cable to the display.

##### USB

Connects a USB cable to the display.

##### IR IN

Connects an IR cable to the display.

#### Controls

##### INPUT

Changes the input source.

##### MENU

Accesses the main menus, or saves your input and exits the menus.



Moves the selection up and down.

##### AUTO/SET

Adjusts the volume level.



Displays the current signal and mode. Press this button to adjust the screen automatically (RGB mode only).



Turns the power on or off.

### Overview

#### Model

F1M93AA, F1M93AC

### Technical Specifications

<b>Panel</b>	<b>Panel</b>	IPS, LED with direct backlit
	<b>Viewable Image Area</b>	<b>106,467 cm</b> (41.92 in) widescreen; diagonally measured
	<b>Panel Active Area (W x H)</b>	<b>92,79 x 52,19cm</b> (36.53 x 20.54 in)
	<b>Aspect Ratio</b>	16:9
	<b>Viewing Angle</b> (typical)	Up to 178° horizontal/178° vertical (10:1 minimum contrast ratio)
	<b>Brightness</b> (typical)*	340 cd/m <sup>2</sup>
	<b>Static Contrast Ratio (typical)*</b>	1000:1
	<b>Dynamic Contrast Ratio (typical)*</b>	500,000:1
	<b>Response Time</b> (typical)*	6 ms gray to gray
	<b>Pixel Pitch</b>	0.4833 mm
	<b>Color Gamut</b>	68%
	<b>Color Support</b> **	Can display up to 16.7 million colors
<b>*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.</b>		
<b>** With the use of FRC technology.</b>		
<b>Touch Frame Specifications</b>	<b>Touch Module Type</b>	IR Spread Technology; 5-point multitouch plus gesture
	<b>Touch Input</b>	Finger, gloved hand, or passive stylus (?8mm diameter)
	<b>Touch Point Response</b>	<10ms with dual touch
	<b>Refresh Rate</b>	100 point/ sec (single-and multi-touch)
	<b>Positional Accuracy</b>	< ± 1.0mm @ 95% area
	<b>Controller Resolution</b>	1920 x 1080
	<b>Support</b>	
	<b>Glass Transmission</b>	85%
	<b>Touch Certification</b>	No certification, only supports Win-7 and Win-8 functionality
<b>On Screen Display (OSD) Controls</b>	<b>Buttons or Switches</b>	Input, menu, ▲ up, ▼ down, ◀ left, ▶ right, auto/set, power
	<b>Languages</b>	9 (German, Simplified Chinese, Traditional Chinese, English, Spanish, French, Italian, Dutch, and Portuguese)
	<b>User Controls</b>	Brightness, Contrast, Backlight, Sharpness, Color, Tint, Color temperature, Image Control, Sound Mode, Input, Aspect Ratio, Audio, Time, Language, Factory Reset
	<b>User Programmable Modes</b>	10
	<b>Audio Controls*</b>	Infinite Sound, Treble, Bass, Standard, Music, Cinema, Sport, Game. <b>*NOTE:</b> Monitor does not ship with speakers (available as an accessory)
<b>Signal Interface/ Performance</b>	<b>Horizontal Frequency</b>	30 to 83 kHz
	<b>Vertical Frequency</b>	50 to 60 Hz
	<b>Recommended Resolution</b>	1920 x 1080 @ 60 Hz
	<b>Max Resolution</b>	1920 x 1080 @ 60 Hz

### Technical Specifications

<b>Video/ Other I/O</b>	<b>Preset VESA Graphic Modes</b> (non-interlaced)	1920 x 1080 @ 60 Hz 1680 x 1050 @ 60Hz 1600 x 900 @ 60Hz 1440 x 900 @ 60Hz 1280 x 1024 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 720 @ 60 Hz 1024 x 768 @ 60 Hz 800 x 600 @ 60 Hz 720 x 400 @ 70 Hz 640 x 480 @ 60 Hz
	<b>Maximum Pixel Clock Speed</b>	150 MHz (Digital and Analog)
	<b>Anti-Glare</b>	Yes
	<b>Default Color</b>	Standard (9300K)
	<b>Temperature</b>	
	<b>Plug and Play</b>	Yes
	<b>Input Signal</b>	RGB/VGA, DisplayPort 1.1a, HDMI (HDCP support on DisplayPort and HDMI)
	<b>Output</b>	RGB/VGA, DisplayPort 1.1a out for tiling
	<b>USB</b>	(1) USB 2.0 input for use with HP Media Sign Player, Type A port
	<b>USB Touch</b>	(1) USB 2.0 port for powering touch module, Type B port
<b>Power</b>	<b>LAN (RJ45)</b>	(1) RJ45 Input, command, control and video over Ethernet
	<b>RS232C</b>	In and Out
	<b>Audio</b>	(1) audio input jack
	<b>Speakers</b>	Not included
	<b>IR</b>	(1) input
	<b>Video Cables included</b>	(1)VGA, (1) HDMI, (1) DisplayPort
	<b>Video Cable Lengths</b>	<b>1,8 m (5.9ft)</b>
	<b>Power Supply</b>	Internal
	<b>Input Power</b>	100 ~ 240 VAC
	<b>Frequency</b>	50~60Hz
<b>Mechanical</b>	<b>Typical Power Consumption</b>	95 W
	<b>Maximum</b>	105 W (without speakers)
	<b>Power Saving</b>	= 2.0W when Wake on Lan is on; = 0.5W when Wake on Lan is off
	<b>Power Cable Length</b>	<b>1,8 m (5.9 ft)</b>
	<b>Dimensions (W x D x H)</b>	<b>Unpacked</b> (head only) <b>99,09 x 9,27 x 58,5cm</b> (39.01 x 3.64 x 23.03 in)
		<b>Packaged</b> <b>108,7 x 73,6 x 23 cm</b> (47.79 x 28.97 x 9.05 in)
	<b>Bezel Width</b>	<b>Left/right and top/bottom</b> <b>15 mm (.59 in)</b>

### Technical Specifications

	<b>Weight - maximum</b>	<b>Unpacked</b>	<b>20,7 kg (45.63 lb)</b>	
		<b>Packaged</b>	<b>24,3 kg (53.57 lb)</b>	
	<b>Tilt Range</b>	None		
	<b>Swivel Range</b>	None		
	<b>Height Adjustable</b>	None		
	<b>Pivot Rotation</b>	None		
	<b>Base (feet/stand)</b>	There is no stand included.		
<b>Environmental</b>	<b>Temperature - Operating</b>	<b>0° to 40° C (32° to 104° F)</b>		
	<b>Temperature - Non-operating</b>	<b>-20° to 60° C (-4° to 140° F)</b>		
	<b>Humidity - Operating</b>	20% to 80% non-condensing		
	<b>Humidity - Non-operating</b>	5% to 95%, 38.7° C max wet-bulb		
	<b>Altitude - Operating</b>	<b>0 to 5000 m (0 to 16,400 ft)</b>		
	<b>Altitude - Non-operating</b>	<b>0 to 12192 m (0 to 40,000 ft)</b>		
	<b>White LED Backlights</b>	Yes		
	<b>CCFL Panel</b>	No		
	<b>Arsenic-Free Display Glass</b>	Yes		
	<b>Low Halogen<sup>3</sup></b>	No		
<b>Environmental Data</b>	<b>Mercury- Free Display Backlighting</b>	Yes		
	<b>Eco-Label Certifications &amp; declarations</b>	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:		
		<ul style="list-style-type: none"><li>• IT ECO declaration</li></ul>		
	<b>Energy Consumption (in accordance with US ENERGY STAR® test method)</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 60Hz</b>
	Normal Operation	81.4 W	80.1 W	82.3 W
	Sleep	0.58 W	0.71 W	0.58 W
	Off	0.28 W	0.39 W	0.27 W
	<b>Heat Dissipation*</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 60Hz</b>
	Normal Operation	278 BTU/hr	274 BTU/hr	281 BTU/hr
	Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
	Off	1 BTU/hr	1 BTU/hr	1 BTU/hr
	* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.			
	<b>Additional Information</b>	<ul style="list-style-type: none"><li>• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.</li><li>• This HP product is designed to comply with the Waste Electrical and</li></ul>		

### Technical Specifications

Electronic Equipment (WEEE) Directive - 2002/96/EC.

- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 0 % post-consumer recycled plastic (by wt.)
- This product is 99 % recycle-able when properly disposed of at end of life.

#### Packaging Materials

<b>External:</b>	PAPER/Corrugated	2876 g
<b>Internal:</b>	PLASTIC/EPP (Expanded Polypropylene)	671 g

#### RoHS Compliance

Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. By July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

#### Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at: (<http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf>):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants - may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel - finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

#### Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

### Technical Specifications

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

**End-of-life Management and Recycling** Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/go/reuse-recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/recyclers>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

**Hewlett-Packard Corporate Environmental Information**

For more information about HP's commitment to the environment:

Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Eco-label certifications

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

**Options**  
(sold separately)

**HP DSD Speakers - Part number F2B36AA**

Ability to install in a variety of commercial applications where an extra-large screen is desired. Enables bundling with select HP Media Players, Thin Clients, or EliteDesk Mini & USDT PC's, directly behind the display, away from view, for a quick and easy comprehensive solution.

Includes a Quick Release for easy mounting and removal of a compatible HP Thin Client or HP USDT PC. Supports 40" to 60" display sizes. Weight restrictions may apply.

Includes tilt friction knobs to retain tilt in any position.

**HP MP4 Model 4200, Digital Signage Player - Part number G5R07UT/G5R07UA**

Attract and inform your customers with the compact and affordable HP MP4 Digital Signage Player, Model 4200, designed to drive static screen layouts and full-screen video signage content.<sup>4</sup>

### Technical Specifications

<b>What's in the box?</b>	<b>HP MP9 Model 9000, Digital Signage Player - Part number</b>	Boost sales and engage customers with compelling dynamic and interactive signage content driven by the HP MP9 Model 9000, HP's smallest and most powerful digital signage player. <sup>4</sup>
	<b>HP Digital Signage Installation Service</b>	A range of installation service Care Packs. See <a href="http://www.hp.com/go/digitalsignage">www.hp.com/go/digitalsignage</a> .
	<b>Display and Accessories</b>	HP LD4245tm 41.92-inch Interactive LED Digital Signage Display VGA cable (1.8m) 5.9 ft HDMI cable (1.8m) 5.9 ft DisplayPort cable (1.8m) 5.9 ft USB cable Type A male to Type B male( 1.8 m) 5.9 ft IR Receiver cable (1.5 m) 4.9 ft Wireless remote control
	<b>Documentation</b>	CD (includes user guide, warranty, drivers)
	<b>Featured Software</b>	Network Sign Manager, Video Over Ethernet
	<b>User Guide Languages</b>	<i>EMEA Region:</i> Danish, Dutch, Finnish, French, German, Italian, Norwegian, Spanish (Int'l), Swedish, Czech, Greek, Hungarian, Polish, Russian, Slovenian, Turkish, Arabic, Kazakh <i>Americas Region:</i> English, French, Spanish, B. Portuguese <i>APJ Region:</i> English, S. Chinese, T. Chinese, Bahasa Indonesia
	<b>Warranty Languages</b>	<i>EMEA Region:</i> Danish, Dutch, Finnish, French, German, Italian, Norwegian, Spanish (Int'l), Swedish, Czech, Greek, Hungarian, Polish, Russian, Slovenian, Turkish, Arabic, Kazakh <i>Americas Region:</i> English, French, Spanish, B. Portuguese <i>APJ Region:</i> English, S. Chinese, T. Chinese, Bahasa Indonesia
	<b>Color</b>	Black
	<b>VESA External Mounting</b>	Yes, 200 x 200mm
	<b>Security Lock-Ready</b>	Yes
<b>Service and Warranty</b>	<b>Certification and Compliance</b>	CE, CB, NOM ,PSB, ICE, TUV-S, CCC, BSMI, FCC, C-UL, PSB, C-Tick, SmartWay Transport Partnership (NA), Microsoft WHQL Certification (Windows 8, Windows 7).
	<b>Compatibility</b>	Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.
	<b>Country of Origin</b>	South Korea
	Protected by HP, including a 3 year standard limited warranty. Optional Care Pack Services are extended service contracts which go beyond your standard warranties. <sup>5</sup>	

### Technical Specifications

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1. HD content required for HD images.
2. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
3. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
4. Mounting hardware sold separately.
5. HP Care Pack Services are sold separately. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See [www.hp.com/go/cpc](http://www.hp.com/go/cpc) for details.

All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.