Technical Specifications

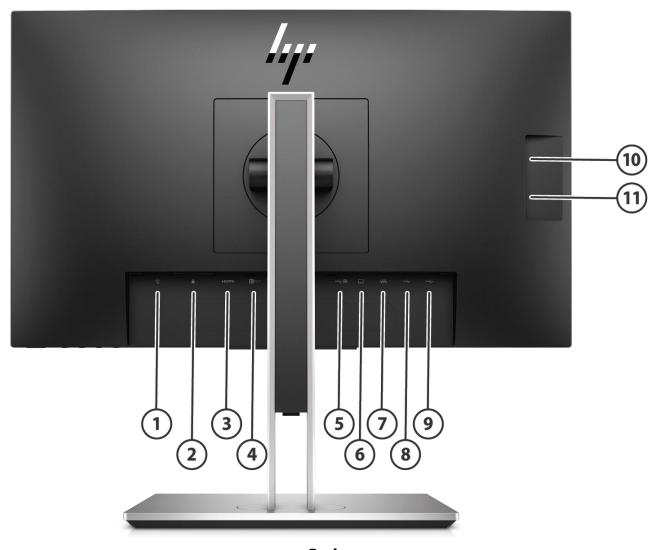
HP EliteDisplay E223d 21.5-inch Docking Monitor



Function Buttons 2

2. Power Button

HP EliteDisplay E223d 21.5-inch Docking Monitor



- 1. DC Power IN Connector
- 2. Security Cable Slot
- 3. HDMI Port
- **4.** DisplayPort[™] 1.2 OUT Port
- **5.** Audio-in Jack
- **6.** USB Type-C[™] Port

Back

- 7. Network Jack
- **8.** USB Type-AP port
- 9. USB Type-A Port
- 10. USB Type-A Ports (2)
- 11. Headset Port

Technical Specifications

Models: 5VT82A8/5VT82U9/5VT82AA/5VT82A7/5VT82AS/5VT82AT

Panel Specifications Display Size (Diagonal) 21.5 in

Display Panel TypeIPS w/LED backlightMicro-Edge BezelYes, 3-sided

Native Resolution* 1920 x 1080 @60 Hz

Native Resolution Note The video card of the connected PC must be capable of

supporting 1920 x 1080 at 60 Hz and include 1 HDMI or 1DP outputs or USB TYPC DP ALT MODE to drive the monitor at

the Preferred Mode.

Panel Bit Depth 8 Bit (6 Bit + A-FRC)

Aspect Ratio 16:9
Brightness Typical 250 cd/m²
Static Contrast Ratio - Typical 1000:1
Static Contrast Ratio - Minimum 700:1
Dynamic Contrast Ratio (DCR) 5,000,000:1

Pixel Pitch 0.27495 x 0.27495 mm

Pixels Per Inch (PPI) 102.46
Backlight Lamp Life 30k minimum

(to half brightness - in hours)

Anti-Glare Panel Yes
Response Time - Typical 5ms (GTG)
Horizontal Viewing Angle 178°

(typical CR>10)

Vertical Viewing Angle 178°

(typical CR>10)

 Panel Active Area (w x h)
 476.064(H)x 267.786(V)

 Preset Graphic Modes/Supported
 640×480 @59.940Hz

 Resolutions
 720×400 @70.087Hz

720×400 @ 70.087 Hz 800×600 @ 60.317 Hz 1024×768 @ 60.004 Hz 1280×720 @ 60 Hz 1280×800 @ 59.810 Hz 1280×1024 @ 60.020 Hz 1440×900 @ 59.887 Hz 1600×900 @ 60 Hz 1680×1050 @ 59.954 Hz 1920×1080 @ 60 Hz

Maximum Resolution1920×1080 @ 60HZRecommended Resolution1920×1080 @ 60HZ

Vertical Scan Range50 - 60 HzHorizontal Scan Range30 - 80 kHzDefault Color TemperatureNeutral (6500 K)Maximum Pixel Clock Speed170 MHz

*DisplayPort™ 1.2 or HDMI 1.4 required to drive panel at its native resolution

NOTE: Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.



Color Gamut Coverage NTSC 72%

sRGB >94% sRGB

Color Management Color Space / Subsampling Support

Default Color TemperatureNeutral (6500 K)Low Blue Light ModesYesRGB Channel AdjustYes, Gain

> Stand Plug & Plav

lug & Play Yes

Tilt -5 TO +23 DEGREES

Swivel Yes, 45°

Pivot (CW & counter CW). Detent at 0 degrees

Height Adjustment Range Yes,150 mm

VESA Mounting Yes, 100 mm with integrated mount or with included

bracket

Security Lock Ready Yes

Detachable Base Yes, ships detached

Warranty 3-3-0 NA/TW/EMEA/ANZ/JPN/VIET/THAI

3-3-3 INDIA/PRC

On Screen Display

(OSD)

On Screen Display User Controls

Brightness, Contrast, Color Control, Input Control, Image Control, Power control, Menu Control, Management, USB

Asteroid in bezel and bucket frame and black in stand

Host Selection, Information, EXIT

RGB 4:4:4, YC_BC_R 4:4:4, YC_BC_R 4:2:2

User Programmable Modes Yes, 10

Monitor Control Buttons or Switches Menu, Minus ("-")/Information, Plus ("+")/Viewing Modes,

Back/Next Active Input, Power

User-Assignable Function Buttons

Languages

Yes, 3 (8 options)

10 (English, Spanish, German, French, Italian, Netherlands,

Portuguese, Japanese, T-Chinese and S-Chinese)

Connector Types DisplayPort™ 1 DisplayPort 1.2 out

HDMI 1 HDMI 1.4

USB Type-C™1 USB3.1 Type C upstream ports **HDCP support**Yes, (USB-C Video and HDMI)

Audio Output 1, Analog **Ethernet** Yes

USB Port
Specifications

USB Version 3.1

USB HubYesDownstream Ports4 PortsUpstream Ports1 USB-C

Fast Charging USB Ports 1 Port (Upper in side BD)

Power Output Maximum Fast Charging: 7.5W; Standard 4.5W

USB-Type C™ Port Specifications

USB-Type C™ Version USB 3.1 Gen1 / 5 G bps

Upstream USB-Type C™ Ports 1 Port

Video Support USB-C Alt mode – DisplayPort™ 1.2

Power Output 5V/9V/10V/12V/15V/20V

Power Output Maximum 65W Max

Special Features Remote Manageability No

User Presets Yes

Power	&	Op:	era	tin	g
Specs					

Power Supply External

Power Source 100 - 240 VAC 50/60 Hz Power Consumption - Maximum 138 W (Without DC power out, with power delivery)

Energy Saving/Standby Mode 0.5W **Power Consumption - Typical** 35 W

Power cable length 1830mm: 398062-001,150304-008,130627-008,121565-

5° - 35°C

001,285052-001,100613-008,286496-001,109197-

008,653326-001,438723-001,393312-001 2500mm: 187487-001,100661-001,401328-001

1800mm: 100614-009 2000mm: 403440-001

EU Energy Efficiency Class (EC1062)

Visible Screen Size 21.5"/55cm

Operating Conditions Operating Temperature - Celsius

Operating Temperature - Fahrenheit 41° - 95°F Non-operating Temperature - Celsius -20° - 60°C Non-operating Temperature --4° - 140°F

Fahrenheit

Operating Humidity 20% - 80% (non-condensing)

Non-operating Humidity 5% - 95%

Operating Altitude 0 - 5,000 m (16,400 ft.) **Non-operating Altitude** 0 - 12.192 m (40,000 ft.)

Environmental Features and **Certifications**

Mercury-free LED display backlighting

Arsenic-Free Display Glass

Low Halogen**

Yes, Mercury-free LED backlights

GSE HP-00011-01B, table 2 defines low-halogen (BFR, CFR,

PVC)

Agency Approvals and Certifications WW application

> CE,CB,KC/KCC/NOM/ICE/ISO 9241-307/ EAC/TUV-GS/cTUVus/PSB/CCC/CEL/ISC/VCCI/FCC/BSMI/Vietnam MEPS/Australian-New Zealand MEPS/WEEE/BIS

Microsoft WHQL Certification

Win 10, Win 8.1, Win 7 Yes (NA SKU)

only

SmartWay Transport Partnership - NA

**External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

Note: DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries.

Contains Recycled Plastics

Contains Recycled Plastics in Back 0.85

Cover

Contains Recycled Plastics in 0.85

Base/Stand

Contains Recycled Plastics in Other 85% (Deco, Middle Frame)

Parts

Recyclable Packaging 0% recyclable Plastics content by total weight of packing

All

materials (Box, packing materials) All **Recyclable Plastics**

Recyclable Packaging (Box, packing

materials)

Technical Specifications

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	D . I . I D	<u>Metric</u>	<u>Imperial</u>
Unit Product/Package Specifications	Product Dimensions (Unpacked with stand) (W x D x H)	48.83 x 20.5 x 44.865 cm	19.22 x 8.07 x 17.66 in
	Product Dimensions (Packed) (W x D x H)	58.9 x 27.3 x 36.5 cm	23.19 x 10.75 x 14.37 in
	Display Head Dimensions (Unpacked without stand) (W x D x H)	48.83 x 4.483 x 29.33 cm	19.22 x 1.765 x 11.55 in
	Base Area Footprint (w x d mm)	236.99 x 205.00 mm	9.33 x 8.07 in
	Bezel Measurements	Top 1.36 mm Side 1.36 mm Bottom 18.4 mm	Top 0.0535 in Side 0.0535 in Bottom 0.724 in
	Product Weight (Unpacked with stand)	5.08 kg	11.2 lb
	Product Weight (Packed)	8.06 kg	17.77 lb
	Product Weight (Head Only)	2.75 kg	6.06 lb
Pallet Information	Pallet Dimensions (L × W × H)	G-1:1190L x 1100W x 125H mm G-2:1100L x 620W x 125H	G-1:46.85L x 43.31W x 4.92H inch G-2:43.31L x 24.41W x 4.92H
	8.11	mm	inch
	Pallet Layers Pallet Product per Layer	20/40" Wooden- 5 layers G-1: 8 sets	
	rattet riouuct pei Layei	G-2: 4 sets	
	Total Products per Pallet	G-1: 40 sets G-2: 20 sets	
	Container Load, 20-Foot	360 units	
	Container Load, 40-Foot	800 units	
	Container Load, 40-Foot HighQ	960 units	
Software Included	Install Monitor INF/ICM Software Install HP Display Assistant		
Recommended Accessories*	Description	Part Number	
	HP B300 PC Mounting Bracket	2DW53AA	
	HP Quick Release Bracket 2	6KD15AA	
	HP S101 Speaker Bar	5UU40AA	
	HP Hot Desk Stand	W2Z73AA	
	HP Executive 15.6 Backpack HP Sure Key Cable Lock	6KD07AA 6UW42AA	
	*Sold separately and availability may vary	by country	
What's in the box?	AC power cord (1.83m) 6.0 ft USB C-C cable (1.8m) 5.9 ft USB A-B Cable (1.8m) 5.9 ft External power supplier (150W) QSP Product notice		
	NOTE: Included cables may vary by country.		
User Guide and	User Guide Languages	English, Arabic, S. Chinese,	T. Chinese, Czech, Danish,



Warranty Languages

Dutch, Finnish, French, German, Greek, Hungarian, Italian,

Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian

Technical Specifications

Warranty Languages

Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish

English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.

Environmental Data	Eco-Label Certifications & declarations	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: IT ECO declaration EPEAT® N/A registered in the United States. See http://www.epeat.net for registration status in your country. US Federal Energy Management Program (FEMP)			
	Energy Consumption (in accordance with US ENERGY STAR® test method)		C, 60Hz	230VAC, 50Hz	100VAC, 50Hz
	Normal Operation	17		17 W	N/A
	Sleep		3 W	0.35 W	N/A
	Off	0.2	8 W	0.31 W	N/A
	Heat Dissipation*	115VA	C, 60Hz	230VAC, 50Hz	100VAC, 50Hz
	Normal Operation			58 BTU/hr	N/A
	Sleep		U/hr	1 BTU/hr	N/A
	Off	1 BT	U/hr	1 BTU/hr	N/A
		service level	is attained fo		
	Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC. This HP product is designed to comply with the Waste Electrical and 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). This product is in compliance with the IEEE 1680 (EPEAT) standard at the <n a=""> level, see http://www.epeat.net</n> Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043. This product contains 44.5% post-consumer recycled plastic (by wt.) according to IEEE 1680.1-2018 standard, criterion 4.2.1.1. This product is 98.9% recycle-able when properly disposed of at end of life. 			
	Packaging Materials	External:	PAPER/Cor		923 g
			PAPER/Pap	oer	280 g
			COMPOSITI	E/paper/carton+plastic	3 g
		Internal:	PLASTIC/O	ther	1 g



Technical Specifications

	PLASTIC/Polyethylene high density - HDPE	16 g
	PLASTIC/EPS (Expanded Polystyrene)	537 g
	PLASTIC/Polyethylene low density- LDPE	9 g
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among companies to extend the restrictions in the European Union (EU) R Hazardous Substances (RoHS) Directive to our products worldwide HP GSE. HP has contributed to the development of related legislat as well as China, India, and Vietnam.	estriction of through the
	We believe the RoHS directive and similar laws play an important repromoting industry-wide elimination of substances of concern. We supported the inclusion of additional substances—including PVC, certain phthalates—in future RoHS legislation that pertains to ele electronics products.	e have BFRs, and
	We met our voluntary objective to achieve worldwide compliance of RoHS requirements for virtually all relevant products by July 2013 continue to extend the scope of the commitment to include furthe substances as regulations continue to evolve.	, and we will
	To obtain a copy of the HP RoHS Compliance Statement, see HP Rostatement.	oHS position
Material Usage	This product does not contain any of the following substances in e regulatory limits (refer to the HP General Specification for the Env http://www.hp.com/hpinfo/globalcitizenship/environment/supply cifications.html):	ronment at
	 Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used retardants in plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins 	as flame
	 Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP) 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 	dosigned to
	be frequently handled or carried by the user. Ozone Depleting Substances Polybrominated Biphenyls (PBBs) Polybrominated Biphenyl Ethers (PBBEs)	. uesigneu to
	 Polybrominated Biphenyl Oxides (PBBOs) Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) 	



rechnical specifications	
	 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: 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

Technical Specifications

	by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental	For more information about HP's commitment to the environment:
Information	Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
	Eco-label certifications http://www.hp.com/hpinfo/globalcitizenship/environment/productdesi
	<u>qn/ecolabels.html</u> ISO 14001 certificates:
	http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755
	and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pd



Technical Specifications

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HP EliteDisplay E223d 21.5-inch Docking Monitor

Summary

Change Log		
V1 to V2		

