

ADDENDUM #2 DISPATCH CONSOLES AND FURNITURE-FEDERALLY FUNDED RFP #20/21-010 PROPOSALS DUE NO LATER THAN: 4:00 PM ON MARCH 3, 2021

This addendum is to notify all potential proposers of clarifications made to the RFP documents as stated below.

COVID-19 Precautions – Due to the City's response to the COVID-19 virus and associated reduction in staff, in-person staff availability is limited. Proposers wishing to physically deliver their proposals on the deadline date shall note that the Purchasing Office will receive proposals in the lobby of City Hall beginning at 3:15PM on March 3rd. Proposals are due no later than 4:00PM. Proposals may also be delivered to the Purchasing Department physical dropbox/mailbox, also located in the lobby of City Hall.

- 1. RFI question responses:
 - a. Does the team prefer dual or single surface consoles?
 - i. Single work surface consoles are what is wanted. The monitors need to be on an independent lifting mechanism.
 - b. What are the specific sizes of the (4) computers/PCs? Brand and model #s would also work.
 - i. Below is a list of all the equipment on the console and attached is the spec sheets of the equipment:
 - 1. HP Z12 G4 Workstation (CPU) (1 Each + Potential Future CPU)
 - 2. Harris R9063 Symphony Dispatch Console (Radio CPU)
 - 3. Intrado (West Corporation) Model 911810-1 CPU (only diagram spec)
 - 4. 21.5" HP ProDisplay P221 LCD Monitor Full HD (6 Each)
 - 5. 27" HP EliteDisplay E271i (1 Each)
 - 6. Harris DDC-100 Digital Desktop Controller
 - 7. Plantronics CA12CD-S PTT Adapter
 - 8. HP M608 Printer (6 each)
 - c. What is the anticipated installation date?
 - i. Anticipated installation is to start around the beginning to mid-July. The dispatch remodel project is scheduled to be completed around the first of July.
 - d. Do you want any plexi or glass on top of the partition system for additional COVID safety measures?
 - i. Yes, low partitions around 30 inches with clear plexi or glass on top would be preferred for the following reasons: to maintain visual throughout the center; COVID separation concerns, and sound dampening between stations.

- e. Pg. 32, #9: Are dispatchers swapping out monitor cables? Why do the dispatchers need to access monitor cables?
 - i. The ports are for ease of adding ancillary equipment on the surface of the console.
- f. On your supplied floorplan, is the hatching the actual raised floor tiles grid?
 - i. The hatch boundary is the allowable space for you to layout your proposed console configuration.
- g. Will Sparks supply duplex or quad boxes either under the floor or on a whip to run up into the computer cabinets?
 - i. The PD Dispatch Remodel Project (separate project) will provide whips into each computer console cabinet from the circuits located in the UPS and normal power electrical panels to accommodate the power requirement needs in the proposed console workstation.

Dan Marran, C.P.M., CPPO Contracts and Risk Manager

February 25, 2021

Sign in / Register



Laptops & 2-in-1s Desktops

BusinessPremiumGamingLaptopsZBook WorkstationsConvertibles & detachablesDeals BusinessImmersiveGamingTowersZ WorkstationsAll-in-onesDeals

Printers 3D Print Ink & toner Displays & accessories

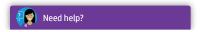
HP CustomereSupport: Knowledge Base format & digital presses

pport Home Products V Software and Drivers Diagnostic Tools V Contact Support Business Support

HP Z2 Small Form Factor G4 Workstation Specifications

- 🖺 ProductSoftagare & driversDiagnostic toolsProductsCommunityPremium helpdesk services for homeSupport services for businessHP CareSpare parts store
- Operating system
- Processors
- **Graphics**
- **Memory**
- Monitors/displays
- **Storage** and drives
- Ports/slots
- Audio/multimedia
- Keyboard/mouse/other devices
- Networking/communication
- Software/security
- Power
- Physical specifications
- **Environmental certifications**

Product image





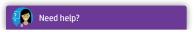
Operating system

Feature	Description
	Windows 10 Pro for Workstations 64 (recommended by HP) Windows 10 Pro 64 Windows 10 Pro 64 (National Academic License) Windows 10 Home 64
Preinstalled	NOTE: Not all features are available in all editions or versions of Windows. Systems might require upgraded and/or separately purchased hardware, drivers, software, or BIOS update to take full advantage of Windows functionality. Windows 10 automatic updates are always enabled. ISP fees might apply and additional requirements might apply over time for updates.
	HP Linux Ready
	Red Hat Enterprise Linux (RHEL) Workstation (12-month paper license available, not preinstalled)
Supported	NOTE : HP Workstations can be ordered with a variety of localization options that might vary by platform. Refer to the <u>Linux Hardware Matrix</u> for additional Linux OS information.

NOTE: In accordance with Microsoft support policy, this product does not support Windows 8 or Windows 7. HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation or later processors, or provide any Windows 8 or Windows 7 drivers.

Processors

Specification	Description
Intel Xeon E-2286G processor	Up to 4.9 GHz with Intel Turbo Boost Technology (4.0 GHz base frequency) 12 MB cache and 6 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology



Specification	Description
Intel Xeon E-2278G processor	Up to 5.0 GHz with Intel Turbo Boost Technology (3.4 GHz base frequency) 16 MB cache and 8 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology
Intel Xeon E-2276G processor	Up to 4.9 GHz with Intel Turbo Boost Technology (3.8 GHz base frequency) 12 MB cache and 6 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology
Intel Xeon E-2274G processor	Up to 4.9 GHz with Intel Turbo Boost Technology (4.0 GHz base frequency) 8 MB cache and 4 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology
Intel Xeon E-2244G processor	Up to 4.8 GHz with Intel Turbo Boost Technology (3.8 GHz base frequency) 8 MB cache and 4 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology
Intel Xeon E-2236 processor	Up to 4.8 GHz with Intel Turbo Boost Technology (3.4 GHz base frequency) 12 MB cache and 6 cores DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology
Intel Xeon E-2226G processor	Up to 4.7 GHz with Intel Turbo Boost Technology (3.4 GHz base frequency) 12 MB cache and 6 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology
Intel Xeon E-2224G processor	Up to 4.6 GHz with Intel Turbo Boost Technology (3.4 GHz base frequency) 8 MB cache and 4 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology



Specification	Description
Intel Xeon E-2176G processor	Up to 4.7 GHz with Intel Turbo Boost Technology (3.7 GHz base frequency) 12 MB cache and 6 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology
Intel Xeon E-2174G processor	Up to 4.7 GHz with Intel Turbo Boost Technology (3.8 GHz base frequency) 8 MB cache and 4 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 71 W TDP Intel vPro Technology
Intel Xeon E-2144G processor	Up to 4.5 GHz with Intel Turbo Boost Technology (3.6 GHz base frequency) 8 MB cache and 4 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 71 W TDP Intel vPro Technology
Intel Xeon E-2136 processor	Up to 4.5 GHz with Intel Turbo Boost Technology (3.3 GHz base frequency) 12 MB cache and 6 cores DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology
Intel Xeon E-2126G processor	Up to 4.5 GHz with Intel Turbo Boost Technology (3.3 GHz base frequency) 12 MB cache and 6 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 80 W TDP Intel vPro Technology
Intel Xeon E-2124G processor	Up to 4.3 GHz with Intel Turbo Boost Technology (3.4 GHz base frequency) 8 MB cache and 4 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 71 W TDP Intel vPro Technology
Intel Xeon E-2104G processor	3.2 GHz Base frequency 8 MB cache and 4 cores Intel UHD Graphics P630 DDR4 memory up to 2666 MT/s data rate 65 W TDP Intel vPro Technology



Specification	Description
Intel Core i9-9900K processor	Up to 5.0 GHz with Intel Turbo Boost Technology (3.6 GHz base frequency) 16 MB cache and 8 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 95 W TDP Intel vPro Technology
Intel Core i9-9900 processor	Up to 5.0 GHz with Intel Turbo Boost Technology (3.1 GHz base frequency) 16 MB cache and 8 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 95 W TDP Intel vPro Technology
Intel Core i7-9700K processor	Up to 4.9 GHz with Intel Turbo Boost Technology (3.6 GHz base frequency) 12 MB cache and 8 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 95 W TDP Intel vPro Technology
Intel Core i7-9700 processor	Up to 4.7 GHz with Intel Turbo Boost Technology (3.0 GHz base frequency) 12 MB cache and 8 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 95 W TDP Intel vPro Technology
Intel Core i5-9600 processor	Up to 4.6 GHz with Intel Turbo Boost Technology (3.1 GHz base frequency) 9 MB cache and 6 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 95 W TDP Intel vPro Technology
Intel Core i5-9500 processor	Up to 4.4 GHz with Intel Turbo Boost Technology (3.0 GHz base frequency) 9 MB cache and 6 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 95 W TDP Intel vPro Technology
Intel Core i3-9100 processor	Up to 4.2 GHz with Intel Turbo Boost Technology (3.6 GHz base frequency) 8 MB cache and 4 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 95 W TDP Intel vPro Technology



Specification	Description
Intel Core i7-8700 processor	Up to 4.6 GHz with Intel Turbo Boost Technology (3.2 GHz base frequency) 12 MB cache and 6 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 65 W TDP Intel vPro Technology
Intel Core i7-8700K processor	Up to 4.7 GHz with Intel Turbo Boost Technology (3.7 GHz base frequency) 12 MB cache and 6 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 95 W TDP Intel vPro Technology
Intel Core i5-8600 processor	Up to 4.2 GHz with Intel Turbo Boost Technology (3.1 GHz base frequency) 9 MB cache and 6 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 65 W TDP Intel vPro Technology
Intel Core i5-8500 processor	Up to 4.0 GHz with Intel Turbo Boost Technology (3.0 GHz base frequency) 9 MB cache and 6 cores Intel UHD Graphics 630 DDR4 memory up to 2666 MT/s data rate 65 W TDP Intel vPro Technology
Intel Core i3-8100 processor	3.6 GHz Base frequency 6 MB cache and 4 cores Intel UHD Graphics 630 DDR4 memory up to 2400 MT/s data rate 65 W TDP
Intel Pentium Gold G5400 processor	3.7 GHz base frequency 4 MB cache and 2 cores Intel UHD Graphics 610 DDR4 memory up to 2400 MT/s data rate 54 W
Intel Core i5/i7/i9 and Xeon with vPro technology capable	Intel Virtualization Technology (Intel VT) Intel Active Management Technology (iAMT) NOTE: For Windows operating system only. Future virtual appliances applications dependent on third-party software and compatibility to be determined.
Chipset	Intel PCH C246



NOTE: Multicore is designed to improve performance of certain software products. Not all customers or software applications necessarily benefit from use of this technology. Performance and clock frequency vary depending on application workload and hardware and software configurations. Intel numbering is not a measurement of higher performance. Intel Turbo Boost is based on maximum GHz for a single core.

Graphics

Feature	Description
Integrated	Intel UHD Graphics P630 Intel UHD Graphics 630 Intel UHD Graphics 610 NOTE: Single graphic card supported.
Entry 3D	NVIDIA Quadro P400 2 GB Graphics NVIDIA Quadro P620 2 GB Graphics NOTE: Two graphic cards supported. Radeon Pro WX3100 4 GB Graphics (single graphic card supported) Radeon Pro WX4100 4 GB 1st GFX Graphics
Mid-range 3D	NVIDIA Quadro P1000 4 GB Graphics NOTE: Single graphic card supported.
Graphics cable adapters	HP DisplayPort to DVI-D Adapter HP DisplayPort to DVI-D Adapter (2-Pack) HP DisplayPort to HDMI Adapter (4-Pack) HP DisplayPort to Dual Link DVI Adapter HP DisplayPort to VGA Adapter HP DisplayPort to HDMI Adapter HP mini-DisplayPort to DP Adapter HP WSB-C to VGA Adapter HP USB-C to HDMI Adapter HP USB-C to DP Adapter

NOTE: Intermixing integrated Intel UHD graphics and discrete graphics cards to drive more than three displays can be enabled using the Computer (F10) Setup Utility. However, HP recommends using only discrete graphics when four or fewer displays are required to be supported.

Memory

Specification	Description
Standard	(4) SODIMM slots supporting dual-channel memory 4 GB, 8 GB, and 16 GB SODIMMs



Specification	Description
	8 GB (1 × 8 GB) DDR4-2666 ECC SODIMM 16 GB (2 × 8 GB) DDR4-2666 ECC SODIMM 32 GB (4 × 8 GB) DDR4-2666 ECC SODIMM 32 GB (2 × 16 GB) DDR4-2666 ECC SODIMM 64 GB (4 × 16 GB) DDR4-2666 ECC SODIMM
	NOTE: Intel Core i5/i7/i9 processors only support non-ECC memory.
Supported configurations	4 GB (1 x 4 GB) DDR4-2666 non-ECC SODIMM 8 GB (2 x 4 GB) DDR4-2666 non-ECC SODIMM 8 GB (1 x 8 GB) DDR4-2666 non-ECC SODIMM 16 GB (2 x 8 GB) DDR4-2666 non-ECC SODIMM 32 GB (4 x 8 GB) DDR4-2666 non-ECC SODIMM 32 GB (2 x 16 GB) DDR4-2666 non-ECC SODIMM 64 GB (4 x 16 GB) DDR4-2666 non-ECC SODIMM
	NOTE: ECC and non-ECC memory DIMMs cannot be mixed on the same system.
Maximum	Up to 128 GB

NOTE: Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows 32-bit operating systems, memory above 3 GB might not all be available due to system resource requirements. Two channels of DDR4 memory are supported. To realize full performance at least one DIMM must be inserted into each channel.

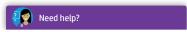
Monitors/displays

Feature	Description
Supported	HP Z Display Z27n G2 27-inch IPS LED Backlit Monitor HP Z Display Z24n G2 24-inch IPS LED Backlit Monitor HP Z Display Z24nf G2 23.8-inch IPS Backlit Monitor HP Z Display Z23n G2 23-inch IPS LED Backlit Monitor HP Z Display Z22n G2 21.5-inch IPS LED Backlit Monitor

NOTE: Resolutions are dependent upon monitor capability and resolution and color depth settings.

Storage and drives

Feature	Description
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Feature	Description
SATA 8.89 cm (3.5 in) Hard Drives	500 GB SATA 6 Gb/s 7200 rpm HDD 1 TB SATA 6 Gb/s 7200 rpm HDD 2 TB SATA 6 Gb/s 7200 rpm HDD 4 TB SATA 7200 rpm HDD 6 TB Enterprise SATA 7200 HDD 500 GB SATA 7200 rpm SED SFF HDD 1 TB SATA 7200 rpm HDD (Enterprise Class)
SATA SSD	HP 256 GB SATA Solid State Drive HP 512 GB SATA Solid State Drive HP 1 TB Solid State Drive HP 2 TB SATA Solid State Drive HP 256 GB SATA SED Opal 2 Solid State Drive HP 512 GB SATA SED Opal 2 Solid State Drive
PCIe Solid State Drives	HP Z Turbo Drive G2 256 GB TLC SSD HP Z Turbo Drive G2 512 GB TLC SSD NOTE: Installed in native M.2 storage slot.
Removable storage	HP 9.5 mm Slim SuperMulti DVD Writer HP 9.5 mm Slim DVD-ROM Optical Drive HP 9.5 mm Slim BDXL Blu-Ray Writer Drive
HDD Frame/carriers	HP DP25 Removable 2.5 in HDD Frame Carrier HP DP25 Removable 2.5 in HDD Spare Carrier
Media card reader	SD Media Card Reader (optional)

NOTE: For solid state drives or hard drives, GB = 1 billion bytes and TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB is reserved for system recovery software.

Ports/slots

Specifications



Specifications	Description
Ports	Front side (1) Power button (1) Headphone/microphone combo jack (1) USB 3.0 Type-A charging data port (1) USB 3.0 Type-A charging data port (1) USB 3.1 Gen 2 Type-C charging data port (optional) (1) SD Card Reader (optional) (1) External/internal shared 8.89 cm (3.5 in) bay (1) Slim ODD bay Back I/O ports (1) WLAN/BT antenna (optional) (1) Audio Line-In (1) Audio Line-Out (2) DisplayPort (DP) 1.2 outputs (from Intel UHD graphics; select models) (1) Flexible module port output (optional flexible module required) (2) USB 2.0 ports (4) USB 3.0 ports (1) Serial port (optional) (1) RJ-45 to integrated GBE PS/2 ports (optional) (1) DC Input Internal I/O ports (1) USB 3.0 port (2) USB 2.0 ports (1) USB 3.0 port (2) USB 2.0 ports
Controller card	HP Thunderbolt 3 PCIe 3-port I/O Card NOTE: Utilizes Flex IO port internal connection for video output.
Rear module options	HP Flex IO module (VGA) HP Flex IO module (HDMI) HP Flex IO module (DP) HP Flex IO module (USB-C) HP Flex IO module (1 GbE LAN)
Expansion slots	(1) PCI Express Gen 3 x16 slot mechanical/ x16 electrical (1) PCI Express Gen 3 x4 slot mechanical/ x1 electrical (1) PCI Express Gen 3 x4 slot mechanical/ x1 electrical (1) PCI Express Gen 3 x16 slot mechanical/ x4 electrical (2) M.2 storage (PCIe Gen 3 x4) (1) M.2 WLAN (PCIe Gen 3 x1 and Intel CNVi) NOTE: All slots are Low Profile. M.2 storage supports compatible devices at 80 mm. The PCIe Gen 3 x16 slot is meant for HP qualified cards, configured or after market. HP does not provide warranty support for third-party cards.
Bays	(1) External/internal shared 8.89 cm (3.5 in) bay



Audio/multimedia

Feature	Description
Integrated audio	Conexant CX20632 5.1 HD Audio

Keyboard/mouse/other devices

Feature	Description
Keyboard	HP USB Business Slim CCID SmartCard Keyboard HP USB Business Slim Keyboard HP PS/2 Business Slim Keyboard HP Wireless Business Slim Keyboard & Mouse
Mouse	HP USB Optical Mouse HP PS/2 Mouse HP USB Hardened Mouse SpaceMouse Pro USB 3D Input Device 3Dconnexion CAD Mouse
Other devices	HP Power Cord Kit HP Workstation Mouse Pad (Japan only) HP Serial Port Adapter HP Serial and PS/2 Adapter HP PCIe x1 Parallel Port Card HP (SFF) Tower Stand HP Z2 SFF G4 Bezel with Dust Filter option HP Z2 SFF G4 Dust filter only

Networking/communication

Feature	Description				
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Feature	Description
Integrated	Intel I219LM PCIe GbE Controller (Intel vPro with Intel AMT 12.0) Intel X710-DA2 2-Port 10GbE SFP+ NIC HP 10GbE SFP+ SR Transceiver Intel X550-T2 2-Port 10GbE NIC Intel 9560 802.11a/b/g/n/ac with Bluetooth 5 M.2 NOTE: If AMT is provisioned, then network teaming with the integrated LAN port is not possible. Intel I350-T2 2-Port 1GbE NIC Intel I350-T2 4-Port 1GbE NIC Intel I350-T2 4-Port 1GbE NIC NOTE: "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

Software/security

Specification	Description
BIOS	HP BIOSphere Gen4 (features vary) HP DriveLock/HP Automatic DriveLock BIOS Update via Network Master Boot Record Security Power On Authentication Secure Erase (methods outlined in the National Institute of Standards and Technology Special Publication 800-88) Absolute Persistence Module ¹ Pre-boot Authentication
Communication/connectivity	HP Wireless Wakeup
HP Value Add software	HP Performance Advisor (preinstalled with Windows 10 only) HP Remote Graphics Software (RGS) HP PC Hardware Diagnostics UEFI (Windows OS only) HP Hotkey Support - CMIT HP Sure Click HP Sure Start Gen4 HP Sure Run (requires Intel 8th generation processors) HP Sure Recover (requires Intel 8th generation processors and wired network connection)
Manageability	HP System Software Manager (SSM) HP Client Catalog HP BIOS Configuration Utility (BCU) HP Driver Packs (available for download) HP Manageability Integration Kit Gen2 (available for download)

Specification	Description
Client Security software	Microsoft Defender HP Client Security Manager Gen4 (requires Windows and Intel 8th generation processors) HP Security Manager (including Credential Manager, HP Password Manager, HP Spare Key) HP Device Access Manager HP Power On Authentication
Security	For Windows 10, Trusted Platform Module (TPM) 2.0 (Convertible to FIPS 140-2 Certified mode through firmware v7.80) Common Criteria EAL4+ Certified RAID configurations (optional and requires a second hard drive) Power-on password (via BIOS) Setup password (via BIOS) SATA port disablement (via BIOS) Serial, USB enable/disable (via BIOS) Integrated hood sensor

NOTE: ¹Absolute agent is activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software. HP Cloud Recovery download tool (Cloud Recovery Client) is available under Software and Drivers section on the support page.

Power

Specifications	Description
Power supply	400 W Internal power adapter Up to 90% efficiency Active PFC 310 W Power supply 90% efficiency Wide-ranging Active PFC 250 W Power supply 85% efficiency Wide-ranging Active PFC
Rated input current	4 A at 100 to 240 V
Operating voltage range	90 to 264 VAC
Operating line frequency range	47 to 63 Hz



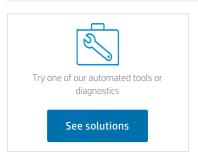
Physical specifications

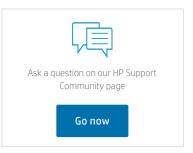
Specifications	Description
Dimensions (H x W x D)	Desktop orientation 100.3 × 337.8 × 381.0 mm (3.95 × 13.3 × 15.0 in) SFF Tower orientation (excluding stand) 337.8 × 100.3 × 381.0 mm (13.3 × 3.95 × 15.0 in) Packaging 499.11 × 229.11 × 517.91 mm (19.65 × 9.02 × 20.39 in)
Weight	Typical weight 6.3 kg (13.89 lb)
	NOTE : Configured with one 8.89 cm (3.5 in) hard drive, one optical drive, two DIMMs, and one NVIDIA Quadro P620 graphics card.
	Shipping weight 9.35 kg (20.61 lb)

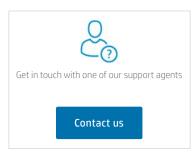
Environmental certifications

Feature	Description
Certifications	US ENERGY STAR (energy-saving features available on selected configurations — Windows only) EPEAT 2019 Gold registered in the United States IT ECO declaration US Federal Energy Management Program (FEMP)









Country/Region: <a> United States

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SYMPHONY™

DISPATCH SOLUTION

The Symphony Dispatch Console combines the Symphony Dispatch Platform with advanced application software to support 24-hour mission-critical operations. A unique hardware design supports the reliability needed for emergency responses. Advanced digital audio technology delivers high capacity and secure end-to-end communications.

Symphony simplifies complex dispatch center operations through a logical user interface. Dispatchers arrange their most utilized functions in a customized interface to maximize productivity.

Multiple screen configurations can be created for specific scenarios ranging from crisis situations to shift changes.

Patented Baton™ technology allows agencies to integrate their CAD

application to display 95% of Symphony's functionality using only 10% of their screen. An embedded web browser for VIDA® apps enables dispatchers to access servers to disable lost or stolen radios or view real-time radio traffic across the system.

Symphony's innovative hardware design allows a simple, flexible mechanical configuration for mounting in a rack, under a desk, as a desktop unit or for mobile installations.





A CLEAR VIEW OF THE FULL OPERATIONAL PICTURE

KEY BENEFITS

- > Capable of combining over 1,000 communication modules at a single dispatch solution
- > Industry-leading capacity for active call, patch and simulselect calls and integrated telephony support
- > Integrated Instant Recall Recorder for up to 24 hours of call history
- > Supports trunked and conventional operations

GENERAL SPECIFICATIONS*

Processor Type:

Intel® Dual Core™ i7 Ivy Bridge processor

Operating System:

Microsoft® Windows® 10 Enterprise 64-bit

Typical Dimensions (H x W x D):

Computer:

1.75 x 16.75 x 10.5 in

(4.5 x 42.5 x 26.6 cm)

Display:

Touchscreen capable from 19 to 48 inches

Input Voltage:

110-240 VAC, 50-60Hz, nominal

Operating Temperature:

+32 to 104°F (0 to +40°C)

Storage Temperature:

-22 to +185°F (-30 to +85°C)

MTBF:

10 years

RoHS Compliant

UL Certified

SYMPHONY DISPATCH PLATFORM (ENCLOSURE)

19-inch rack mount compatible metal housing

1RU (1.75 in) height

Front panel display, access, connections and controls for:

1 27	
Power	USB Accessories
DisplayPort™ (Video)	Solid-state Drive (SSD)
Auxiliary Audio Input	Backup Radio Switch
Auxiliary Audio Output	

EXTERNAL INTERFACES

Two 10/100/1000-Gigabit Ethernet ports with RJ45

7 USB 2.0 ports (excluding Audio Subsystem)

7 USB 1.1 ports for audio accessories

6 local Digital Inputs

5 local Solid-state Relay Outputs

AUDIO SUBSYSTEM

One 10/100 DSP-driven Ethernet Extender Interface with RF45 connector

Operator and Supervisor Headsets interfaced via DB-9F connectors on rear panel

Desk Microphone interface via DB-9F connector on rear panel

8 Speaker interface with 1/4-inch TRS jacks on rear panel for audio connections

Analog Call Director interface via RJ45 connector on rear panel

Analog Backup Radio interface via DB-9 Male connector on rear panel and mode selection switch mounted on front panel

Analog Building Intercom interface via RJ45 connector on rear panel

Two Auxiliary Audio Inputs via 3.5-mm TRS jack on rear panel

Two Auxiliary Ethernet DSP Extender ports on rear panel

VIDEO

Two DisplayPort Video Connections (can drive up to 4 monitors)

STORAGE

Externally accessible and removable solid-state drive

Product performance note: The performance of any L3Harris console (Symphony Dispatch Console) with any third-party hardware (including computers) other than L3Harris recommended or approved hardware is not guaranteed by L3Harris Technologies nor will L3Harris Technologies offer any software or other corrections to improve the performance of the L3Harris console with such third-party hardware.

Technical specifications are subject to change without notice. Product sales are subject to applicable U.S. export control laws.

Symphony™ Dispatch Solution

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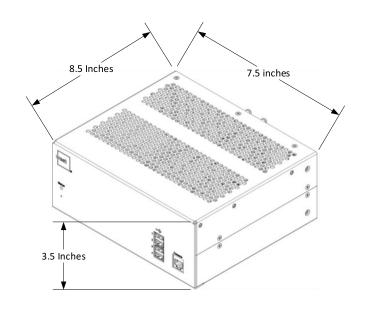
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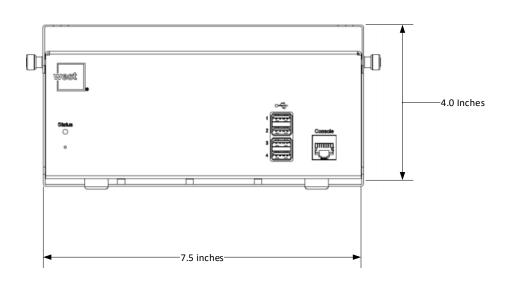
L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

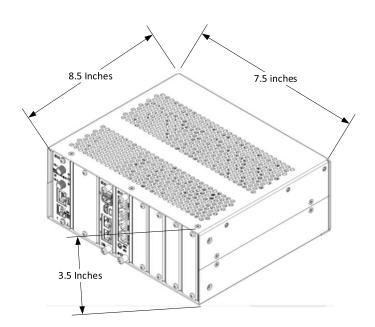


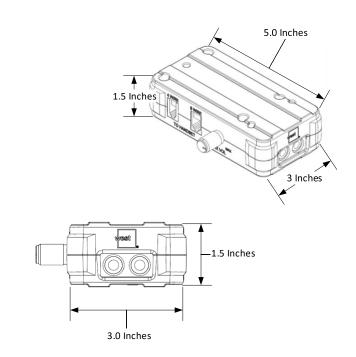
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^{*}Requires System Release SR10A or newer









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<u>Displays (/audio-visual-hire/audio-visual-hire-equipment/category/24-displays)</u> 21.5" HP ProDisplay P221 LCD Monitor Full HD

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21.5" HP ProDisplay P221 LCD Monitor Full HD



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(/images/com hikashop/upload/21 5 hp prodisplay p221 lcd monitor full hd.jpg)

HP ProDisplay P221 21.5-inch LED Backlit Monitor has diagonal viewable area display with 1920 x 1080 resolution.

Specifications

Dimensions (WxDxH) 20.4 in x 6.3 in x 14.9 in - with stand
Display Type LED-backlit LCD monitor / TFT active matrix

Aspect Ratio 16:9

 Native Resolution
 Full HD (1080p) 1920 x 1080 at 60 Hz

 Contrast Ratio
 1000:1 / 3000000:1 (dynamic)

Color Support 16.7 million colors

Controls & Adjustments Brightness, contrast, color temperature, phase, clock

Dimensions (WxDxH) 20.4 in x 6.3 in x 14.9 in - with stand

Horizontal Viewing Angle 170

OSD Languages Chinese (traditional), Chinese (simplified), English, German, French, Italian, Portuguese,

Spanish, Dutch, Japanese

Vertical Viewing Angle 160

Manufacturer

Color Temperature 9300K, 6500K Viewable Size 21.5" Pixel Pitch 0.248 mm Panel Type TN Brightness 250 cd/m² Screen Coating Anti-glare Horizontal Refresh Rate 24 - 94 kHz Backlight Technology WLED Video Bandwidth 170 MHz Vertical Refresh Rate 50 - 76 Hz

ΗP

equipment/category/27-video-recordersand-players)

Interfaces DVI

VGA

Nominal Voltage AC 120/230 V Frequency Required 50/60 Hz Power Consumption 22 Watt

Operational

Power Consumption 0.5 Watt

Stand by

Image Brightness 250 16:9 Image Aspect Ratio Image Contrast Ratio 1000:1 Video Bandwidth 170 MHz Video Format 1080p (Full HD)

Type LED-backlit LCD monitor Voltage Required AC 120/230 V (50/60 Hz)

ENERGY STAR Certified Yes 41 °F Min Operating

Temperature

Max Operating 95 °F

Temperature

Humidity Range Operating 20 - 80% (non-condensing) Brand URL: http://www8.hp.com (http://www8.hp.com)

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24).		<u>71</u>).	
Samsung 85 Inch LED	Yamaha QL1 Digital	Panasonic PT-RZ12K	Lenovo ThinkPad
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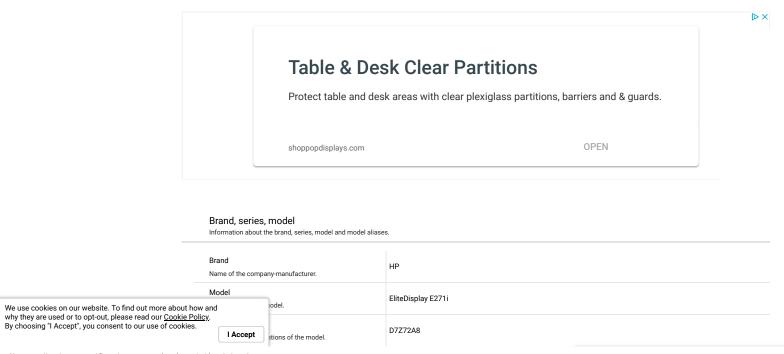
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Search <u>Home</u> > <u>HP</u> > EliteDisplay E271i 27" HP EliteDisplay E271i - Specifications Width Power consumption Height Depth Weight Specifications Display Response time Write a review Display: 27 in, AH-IPS, W-LED, 1920 x 1080 pixels Viewing angles (H/V): 178 ° / 178 ° Brightness: 250 cd/m² Static contrast: 1000: 1, Dynamic contrast: 5000000: 1 Refresh rate: 50 Hz - 76 Hz sRGB: 90 %, Adobe RGB: 65 % Dimensions: 642 x 387.3 x 52.2 mm Weight: 4.9 kg Add to compare Suggest an edit



DisplayInformation about the main characteristics of the display - panel, backlight, resolution, refresh rate, etc.

	Offitation about the	ie main characteristics of the display - pr	aner, backright, resolution, remestrate, etc.
Siz	ze class		
Siz Oft	Size class of the display as declared by the manufacturer. Often this is the rounded value of the actual size of the diagonal in inches.		27 in (inches)
Ap ma dia	Diagonal Approximate diagonal size of the display. If the manufacturer does not provide such information, the diagonal is calculated from the width and height of the screen.		685.8 mm (millimeters) 68.58 cm (centimeters) 27 in (inches) 2.25 ft (feet)
Ap		of the display. If the manufacturer does ormation, the width is calculated from a spect ratio.	597.36 mm (millimeters) 59.736 cm (centimeters) 23.5181 in (inches) 1.9598 ft (feet)
Ap do:	es not provide su	of the display. If the manufacturer ch information, the height is calculated nd the aspect ratio.	336.31 mm (millimeters) 33.631 cm (centimeters) 13.2406 in (inches) 1.1034 ft (feet)
	nel manufactu	rer acturer of the display panel.	LG Display
	nel model ormation about th	ne model of the panel used.	LM270WF5-SAA1
The spe res The	Panel type There are various panel technologies. Each has its own specific features - viewing angles, color reproduction, response time, brightness/contrast, production cost, etc. The image quality depends directly on the type of the display panel used.		AH-IPS
The bits	s for each of the	ed panels are those with 6, 8, and 10 RGB components of the pixel. They 30-bit color, respectively.	8 bits (6 bits + FRC)
pix sw nev usi mil and	ame Rate Control cels to show more ritching between of w intermediate co- ing FRC, a 6-bit di llioin colors, whice	(FRC) is a method, which allows the color tones. With quick cyclic different color tones, an illusion for a slor tone is created. For example, by splay panel is able to show 16.7 h are typical for 8-bit display panels, d	Yes
The	reproduce, depen	per of colors, which the display is able ds on the type of the panel in use and hnologies like FRC.	16777216 colors 24 bits
The	Aspect ratio The ratio between the horizontal and the vertical side of the display. Some of the standard and widely used aspect ratios are 4:3, 5:4, 16:9 and 16:10.		1.778:1 16:9
Info	d vertical side of	ne number of pixels on the horizontal the screen. A higher resolution allows e detailed and of higher quality image.	1920 x 1080 pixels Full HD / 1080p
The nei	ighboring pixels. solution (the TFT	is the distance from the centers of two n displays, which have a native ones, for example), the pixel pitch olution and the size of the screen.	0.311 mm (millimeters) 0.0311 cm (centimeters) 0.0122 in (inches) 0.001 ft (feet)
how and <u>Policy</u> . es.	I Accept	amber of pixels in a unit of length. the display size and the increase of	81 ppi (pixels per inch) 32 ppcm (pixels per centimeter)

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the display size and the increase of el density increases.

Display area The percentage of the approximate area, taken by the active part of the screen, to the total front area.	80.8 % (percent)
Backlight The backlight is the source of light of the LCD display panels. The type of backlight determines the image quality and the color space of the display. There are various backlights such as CCFL, LED, WLED, RGB-LED, and etc.	W-LED
sRGB sRGB is a color space, developed jointly by Hewlett-Packard and Microsoft in 1996. It is used in different devices such as printers, displays, TV sets, cameras, etc. The sRGB color space covers about 72% of the NTSC color space.	90 % (percent)
Adobe RGB (1998) Adobe RGB (1998) is a color space, developed by Adobe Systems in 1998. It has a wider gamut than the sRGB (mainly in the cyan-green range of colors) and is widely used in professional printing.	65 % (percent)
Brightness Information about the brightness of the screen. It is measured in candela per square metre (cd/m^2) .	250 cd/m² (candela per square meter)
Static contrast The static contrast shows the ratio between the brightest and the darkest color, which the display can reproduce simultaneously, for example, within one and the same frame/scene.	1000:1
Dynamic contrast The dynamic contrast shows the ratio between the brightest and the darkest color, which the display can reproduce over time, for example, in the course of playing a video.	5000000:1
Horizontal viewing angle Information about the maximum horizontal viewing angle, within which the image on the screen is of acceptable quality.	178° (degrees)
Vertical viewing angle Information about the maximum vertical viewing angle, within which the image on the screen is of acceptable quality.	178° (degrees)
Minimum response time Information about the minimum amount of time, in which the pixels change from one color to another. Very often the manufacturer provides the response time for transition from grey-to-grey (G2G).	7 ms (milliseconds) 0.0070 s (seconds)
Maximum response time Information about the maximum amount of time, in which the pixels change from one color to another.	20 ms (milliseconds) 0.0200 s (seconds)
Input lag Desktop monitors and smart TVs experience a latency/lag in visualizing the information. The time in milliseconds that the display needs to visualize the signal input.	20 ms (milliseconds) 0.0200 s (seconds)
Coating Information about the type of coating of the display. There are different types of matte and glossy coatings, each of which has its own advantages and drawbacks.	Anti-glare/Matte

3D

ous technologies to achieve a 3D effect. Each of these technologies has its own advantages and drawbacks.

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l Accept her 3D is supported or not.

No

Frequencies

Information about the horizontal and vertical refresh rates/frequencies.

Horizontal frequency (digital) The horizontal scan rate/frequency shows the number of horizontal lines, displayed by the monitor per second, when it is plugged to a digital source.	24 kHz - 94 kHz (kilohertz)
Vertical frequency (digital) The vertical frequency/refresh rate shows how many times in a second the image on the screen is refreshed.	50 Hz - 76 Hz (hertz)

Power supply and consumption

Information about the power supply and consumption, energy efficiency class, etc.

110V Permissible voltage tolerance in a 110-volt electric system.	100 V - 120 V (volts)
220V Permissible voltage tolerance in a 220-volt electric system.	220 V - 240 V (volts)
Alternating current frequency Requirement regarding the alternating current frequency in the electric system.	50 Hz - 60 Hz (hertz)
Power consumption (off) Power consumption in off-mode.	0.5 W (watts)
Power consumption (sleep) Power consumption in sleep/stand by/suspend mode.	0.5 W (watts)
Power consumption (average) Average power consumption in standard work mode.	35 W (watts)
Power consumption (maximum) The maximum possible power consumption.	40 W (watts)

Dimensions, weight and color

Information about the dimensions and the weight of the specific model with and without stand as well as the colors, in which it is offered to the market.

Width Width without sta	and in different measurement units.	642 mm (millimeters) 64.2 cm (centimeters) 25.2756 in (inches) 2.1063 ft (feet)
Height Height without st	and in different measurement units.	387.3 mm (millimeters) 38.73 cm (centimeters) 15.248 in (inches) 1.2707 ft (feet)
Depth Depth without sta	and in different measurement units.	52.2 mm (millimeters) 5.22 cm (centimeters) 2.0551 in (inches) 0.1713 ft (feet)
Weight Weight without st	tand in different measurement units.	4.9 kg (kilograms) 10.8 lbs (pounds)
Width with star	d lifferent measurement units.	642 mm (millimeters) 64.2 cm (centimeters) 25.2756 in (inches) 2.1063 ft (feet)
es.		532.1 mm (millimeters)

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53.21 cm (centimeters)

18/2020			27" HP EliteDisplay E271i - Specifications
	Height with stand in	n different measurement units.	20.9488 in (inches) 1.7457 ft (feet)
	Depth with stand	different measurement units.	278.5 mm (millimeters) 27.85 cm (centimeters) 10.9646 in (inches) 0.9137 ft (feet)
	Weight with stand in	d n different measurement units.	7.7 kg (kilograms) 16.98 lbs (pounds)
	Colors Information about t is offered to the ma	he colors, in which the specific model rket.	Black
	Ergonomics Information about t	he ergonomic functions - height adjustme	ent, swivel angles, tilt angles, etc.
		whether there is a possibility for wall g to the VESA Mounting Interface	Yes
	standard, which diff	ious interfaces under the VESA fer in the size of the brackets, the the screw holes and their number.	100 x 100 mm
		l whether the stand can be dismounted. ired for wall mounting.	Yes
	Height adjustment Information about vadjustment.	nt whether the stand allows height	Yes
	Height adjustment Information about theight to be adjusted	he extent to which the stand allows the	130 mm (millimeters) 13 cm (centimeters) 5.1181 in (inches) 0.4265 ft (feet)
	Landscape/portra Some displays have portrait mode alike.	ait pivot e the ability to operate in landscape and	Yes
	Left pivot Degree of pivoting t	he display counterclockwise.	0 ° (degrees)
	Right pivot Degree of pivoting t	he display clockwise.	90 ° (degrees)
	Left/right swivel Information whethe the stand axis.	r the display can be swiveled around	Yes
	Left swivel Maximum swivel de stand axis.	egree of the display to the left of the	180° (degrees)
	Right swivel Maximum swivel de stand axis.	egree of the display to the right of the	180 ° (degrees)
	Forward/backwa Most displays have backward as to pro position for the use	the ability to be tilted forward and vide a more comfortable viewing	Yes
We use cookies on our website. To find out more about how why they are used or to opt-out, please read our <u>Cookie Poli</u> e		forward tilting of the display.	5° (degrees)
By choosing "I Accept", you consent to our use of cookies.	I Accept	backward tilting of the display.	30 ° (degrees)

Camera Many contemporary desktop monitors and smart TV sets have built-in cameras. Camera No Information whether the current model has a built-in camera or not. Connectivity Available connectivity ports, slots and interfaces. 2 x USB 2.0 (downstream) Connectivity 1 x USB 2.0 (upstream) Information about the available connectivity ports, slots and interfaces such as USB, infrared port, SD card slot, audio/video and network interfaces, etc. 1 x DisplayPort 1.2 1 x DVI-D Dual Link 1 x D-sub High-bandwidth Digital Content Protection (HDCP) Features Some additional functional features of the model. Features DDC/CI Information about additional software features, technologies, functions and services of the model. Certificates, standards and licenses Licenses from regulatory agencies, standards, certificates. BSMI C-Tick CB CCC CE CECP CEL Grade 1 EAC **ENERGY STAR** EPA Certificates, standards and licenses **Epeat Gold** FCC Class B List of the standards, certificates and licenses supported/received by the current model. ICE ISC KC KCC NOM PSB SEPA TCO EDGE TÜV/S VCCI-R WHQL (Windows 8; Windows 7) Operating and storage conditions There are certain requirements for the environmental conditions, in which the display should be used and stored in order to function properly. Operating temperature 5 °C - 35 °C (degrees Celsius) The operating temperature shows the safe temperature range (from minimum to maximum), within which the flawlessly. Outside this range it might 41 °F - 95 °F (degrees Fahrenheit) We use cookies on our website. To find out more about how and nd/or fail entirely. why they are used or to opt-out, please read our Cookie Policy. By choosing "I Accept", you consent to our use of cookies. 20 % - 80 % (percent) I Accept

The operating humidity shows the acceptable level of humidity, in which the display will function flawlessly. It sets a lower and an upper humidity level for safe operation and is measured in percentage. Operating altitude The operating altitude shows the maximum admissible 5000 m (meters) altitude, at which the display will function flawlessly. Above this level it might not operate properly and/or might 16404.2 ft (feet) seize to function. Storage temperature -20 °C - 60 °C (degrees Celsius) The storage temperature shows the range from a -4 °F - 140 °F (degrees Fahrenheit) minimum to a maximum temperature, within which storing of the display is considered to be safe. Storage humidity The storage humidity shows the lower and upper humidity limit, which ensures safe storage of the display. Storing it 5 % - 95 % (percent) outside these limits might damage the display. Storage altitude 12192 m (meters) The storage altitude shows the maximum possible altitude 40000 ft (feet) for secure storing of the display. Storing it above this limit may result in damaging the display. Accessories Often the packaging of desktop monitors and smart TV sets includes accessories for them. Accessories D-sub cable DisplayPort cable Information about some of the main accessories included USB 2.0 upstream cable in the standard packaging of the current model. Additional features Information about other features. Additional features Security lock slot Information about other features of the current model, which are important and have to be specified. $\triangleright \times$ **Clear Table & Desk Partitions**

Protect table & desk areas with plexiglass barrier shields & dividers.

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that include HP EliteDisplay E271i

by the website visitors, that include HP EliteDisplay E271i.



https://www.displayspecifications.com/en/model/ca0d770

Last viewed models

A list of the last viewed desktop monitors and TVs.

27" HP EliteDisplay E271i

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DDC-100[™] Digital Desktop Controller

The Digital Desktop Controller (DDC-100)

- Allows multiple dispatch operators to work in remote areas of a building not reached by radio signals
- Supports specialized applications with custom programming software, movable keycaps, and optional accessories
- Provides easy and inexpensive installation with standard in-building wiring



The DDC-100 is designed for users who need to remotely control an Orion™*, Jaguar™ 725M*, or M7100^{IP} Desktop Station and access more of its features than is possible with standard Tone or DC remotes. The unit can operate on ProVoice™, Enhanced Digital Access Communications System (EDACS®), P25^{IP}, and conventional systems. The Light-emitting Diode (LED) equipped keypad and Liquid Crystal Display (LCD) of the DDC-100 allow access to most of the features of the desktop station.

Up to 25 remotes may be located up to 2,000 feet away from the radio. Flexible network topologies (ring, star, or "T" configuration) and use of in-building 3-twisted-pair wiring makes installation easy and inexpensive. The small footprint, internally mounted termination panel, and telephone-like ergonomics of the DDC-100 make it ideal for office environments.

Features Users Desire

Essential features typically required in desktop radio controllers are included at no additional cost with

the DDC-100. A controller can be configured as a Supervisory unit with special control over the other controllers on the network. A Supervisory unit may enter Takeover Mode, allowing the unit to preempt other desktop controllers on the network.

Privacy Mode allows a particular desktop remote to mute all other remotes on the network (except the Supervisory unit) to allow the operator to converse over the radio without the others listening.

The Intercom feature allows a dispatch operator to converse with other operators on the network without using the radio.

Parallel Status updates on the LCD duplicate the Control Unit display; show the current mode of operation for the radio; present which System, GID, or LID has been selected; and indicate when the radio is in use by another operator.

Clear Communication

Superior audio features make the DDC-100 easy for operators to use. Automatic Gain Control (AGC) circuitry compensates for the

distance between desktop controllers and the radio so that the volume levels remain at their optimum settings throughout the network.

The Voice-Operated Switch (VOX) prevents any annoying line hum present from being heard by the operator. The integrated speaker, microphone, and handset are included as standard equipment with every desktop controller so that each operator may choose between "speakerphone" operation and private conversation.

Options and Accessories

Transparent keycaps with movable labels, when used with PC programming software, allow full customization of the keypad for special applications. Options such as the Push-to-Talk (PTT) footswitch, headset, and desktop microphone support dispatch operators in a wide variety of environments.

*Note that the Orion and Jaguar 725M are not compatible with P25^{IP} systems.

General Specifications DDC-100 System:

Radio Type:

Harris Orion, Jaguar 725M, or M7100^{IP} Mobiles with Desktop Station

Maximum Number of Desktop Controllers:

25

Line Lengths:

2000 ft from radio interface to desktop controllers

Connection:

Configuration:

T, Star, Multi-drop

Wire Type:

Twisted pairs down to 24 gauge

Number of Conductors:

6 (3 twisted pairs)

Setup:

No adjustments required

Desktop Controller:

Power:

12 VDC @ 300 mA, or optional 120 VAC or 230 VAC wall transformers

Temperature:

32 to 140°F (0 to 60°C)

Controls:

System and Group Up and Down, Scan, Scan Add/Delete, Volume, 16-key keypad, Intercom, Privacy, Mute, TX

Indicators:

LCD for radio status and prompts. LEDs for Intercom, Privacy, Mute, TX, Busy, In Use, Scan, 16-key keypad

Status Tones:

Passes all progress tones from the radio

Audio Interface:

Internal microphone for use with intercom and front panel transmit. Handset for added privacy. Connections for external interface (microphone, speaker and PTT). Handset may be replaced by a headset.

Connections:

6-conductor modular cableto-radio interface.

Radio Interface:

Power:

12 VDC @ 300 mA

Temperature:

32 to 140°F (0 to 60°C)

Indicators:

LEDs indicating TX and RX activity on radio and desktop controller lines and power LED

Connections:

DB37 cable to radio, 6conductor modular cable to desktop controllers

Programming Kit:

Reconfigures desktop controller keypads and sets the following system parameters: enables clock, Privacy Mode, and Intercom; and sets the timer for TX timeout. Includes 12-foot cable, RS232 adapter, and 3-1/2-inch disk

Certifications:

The system is designed for FCC Part 15 certification



CA12CD-S PTT ADAPTER



Meets the Needs of Mission Critical Applications

The CA12CD-S is a cordless PTT (push-to-talk) headset adapter designed to provide wireless communications and PTT functionality for applications such as Public Safety Dispatch and Air Traffic Control. The CA12CD-S is supplied with the analog Console Interface Cable (PJ-7) as shown. For digital applications, Model SSP 2468-01 (sold separately) can be installed. This USB-PTT Adapter Cable replaces the Console Interface Cable and provides a complete digital solution. The CA12CD-S uses digital processing (DECT $^{\text{TM}}$ 6.0), and operates in the UPCS band (1.92 - 1.93 GHz) in North America. European versions are also available that operate within the DECT frequency range (1.88 - 1.90 GHz). Various connector options available upon request.

APPLICATIONS:

Public Safety

Air Traffic Control

Radio Dispatch Facilities

Training/Simulation

Cordless Push-to-Talk

CA12CD-S KEY COMPONENTS

BASE UNIT:

- Two charging wells (unit supplied with an extra battery)
- Sending and receiving sensitivity controls
- Status LEDs for Power, Battery Charging and PTT
- · Coil cord (10 ft. extended) with PJ-7 connector
- Battery recharge time: 1 hour (90%);
 3 hours (100%)
- Operating temp. range: $+4^{\circ}\text{C}$ (40°F) to $+49^{\circ}\text{C}$ (110°F)

REMOTE UNIT:

- PTT button with momentary/locking selector
- On-Off button with LED
- Robust metal belt clip
- Receiving volume control
- 12 inch cable with Quick Disconnect
- Accepts all Plantronics "H" and "HW" Tops

GLOBAL SERVICE AND SUPPORT

Backed by Plantronics industry leading global service and support.

+1-800-544-4660 (US and Canada) +1-831-458-7700 (outside US)



FEATURES	BENEFITS
PTT Switch, momentary and locking options	Field-proven reliability; user selectable
Spare Battery Pack	Two battery packs and two recharging wells: One for the remote unit and one for the spare battery — allow for 24/7 operation
Lithium-ion Batteries	Extended talk time for all day/shift use
Selectable output ranges for transmit and receive	Universal compatibility for carbon, electret, and dynamic microphone inputs
DECT 6.0 with 64-bit encryption	Secure and private communications, HIPAA compliant

HP LaserJet Enterprise M608 series



This HP LaserJet with JetIntelligence combines performance, energy efficiency, and security. 1

This HP LaserJet Printer with JetIntelligence combines exceptional performance and energy efficiency with professional-quality documents right when you need them—all while protecting your network from attacks with the industry's deepest security. 1



HP LaserJet Enterprise M608n



HP LaserJet Enterprise M608dn



HP LaserJet Enterprise M608x

The world's most secure printing¹

- With HP Sure Start, each printer regularly checks its operating code and repairs itself from attempted hacks.
- Help prevent potential attacks and take immediate action with instant notification of security issues.
- Centralize control of your printing environment with HP Web Jetadmin—and help build business efficiency.²
- Give workgroups what they need to succeed. Easily choose and deploy over 180 HP and third-party solutions.

High-speed performance meets energy efficiency

- Speed through tasks and save paper. Print two-sided documents nearly as fast as singlesided.
- This printer wakes up fast and prints your first page faster—in as quickly as 7.8 seconds.⁴
- This printer uses exceptionally low amounts of energy thanks to its innovative design and toner technology.⁵
- Paper handling options include a wheeled stand and 550-sheet input feeder for paper sizes A6 to legal.

More. Pages, Performance, and Protection.⁶

- Produce sharp text, bold blacks, and crisp graphics with precision black toner.
- Original HP Toner cartridges with JetIntelligence deliver more pages per cartridge than
- Help retain the Original HP quality you paid for with anti-fraud and cartridge authentication technology.
- Spend less time replacing toner, and more on business. Choose high-yield toner cartridges.⁷

driver, and document complexity.

¹ Based on HP review of 2016 published security features of competitive in-class printers. Only HP offers a combination of security features that can monitor to detect and automatically stop an attack then self-validate software integrity in a reboot. For a list of printers, visit http://www.hp.com/go/PrintersThatProtect. For more information: http://www.hp.com/go/printersecurityclaims HP Web letadmin is available for download at no additional charge at http://www.bp.com/go/webietadmin ³ Measured using ISO/IEC 24734, excludes first set of test documents. For more information, see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application,

Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity and time in sleep.

Based on HP testing using the ENERGY STAR® program's Typical Electricity Consumption (TEC) method or as reported in energystar.gov versus the top three leading competitors as of 8/2015. Actual results may vary. For details see http://www.hp.com/go/Liclaims

Wore pages versus predecessor cartridges claim based on page-yield comparison of HP 37X High Yield Black Original LaserJet Toner Cartridges with HP 87X High Yield Black Original LaserJet Toner Cartridges. For more information, see http://www.hp.com/go/learnaboutsupplies

⁷ HP 37X High Yield Black Original Laser Jet Toner Cartridges not included; please purchase separately.
8 An FCC Class A emissions compliant device meets the less stringent (higher) levels of emissions allowed by the FCC for a product operation in a commercial environment. An FCC class A device cannot be marketed for use in a residential environment and an FCC class A device should not be purchased for use in a residential environment due to the increased risk of interference to radio communications

Product walkaround

- 1. Hardware Integration Pocket³
- 2. 4.3-inch (10.9 cm) color touchscreen control panel
- 3. Easy-access USB port1
- 4. 100-sheet multipurpose tray 1
- 5. Front door access to toner cartridges
- 6. 550-sheet input tray 2
- 7. 550-sheet input tray 3
- 8. 500-sheet output bin
- 9. Automatic two-sided printing
- 10. Wi-Fi Direct⁵/Bluetooth Low Energy⁸
- 11. Host USB port
- 12. Gigabit Ethernet network port
- 13. Hi-Speed USB 2.0 printing port
- 14. Slot for cable-type security lock



Series at a glance







Model	HP LaserJet Enterprise M608n	HP LaserJet Enterprise M608dn	HP LaserJet Enterprise M608x
Part number	K0Q17A	K0Q18A	K0Q19A
Print speeds (letter/A4) ²	Up to 65/61 ppm		
Control panel	2.7-inch (6.9 cm) LCD with keypad 4.3-inch (10.9 c		4.3-inch (10.9 cm) touchscreen
Automatic two-sided printing	Not available	Not available √	
Hardware Integration Pocket ³	Not available		√
100-sheet tray 1, 550-sheet tray 2	√		
550-sheet paper feeder ⁴	Optional (up to four) √ (plus up to three optional)		
2,100-sheet paper feeder ⁴	Optional		
Envelope feeder	Optional (up to two)		
Printer stand	Optional		
5-bin stapler/stacker/mailbox with job offset	Optional		
Direct mobile printing	Optional wireless direct ⁵ /NFC ⁶ Embedded Wi-Fi Direct ⁵ /Bluetooth Energy ⁸		
Wireless networking	Optional ⁷		
HP High-Performance Secure Hard Disk	Optional		

¹An administrator must enable the easy-access USB port before use. ²Measured using ISO/IEC 24734; excludes first set of test documents. For more information, see hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity. ³Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase. HIP not available on the HP Laser Jet Enterprise M607n and M608n. ⁴All models come standard with the 100-sheet pultipurpose tray and 550-sheet traper feeders and the optional 550-sheet paper feeder standard, and can add up to three additional 550-sheet paper feeders and the optional 550-sheet paper feeders and the optional 570-sheet paper feeders. ³Win-Fi Direct printing is embedded in the HP Laser Jet Enterprise M608x and M609x models. All other models can add wireless direct with the purchase of the optional HP Jetdirect 3000w NFC/Wireless Direct Accessory. Mobile device needs to be connected directly to the signal of a Wi-Fi Direct is a registered trademark of Wi-Fi Alliance. ⁶ Touch-to-print capability is optional for all models (except M608x and M609x) with purchase of the optional HP Jetdirect 3000w NFC/Wireless Direct Accessory. Mobile device must support to Mar Field Communication (NFC)-enabled printing. For more information, see hp.com/go/businessmobileprinting. ³All models can add wireless networking with the purchase of the optional HP Jetdirect 2900w Print Server. Wireless performance is dependent on physical environment and distance from access point, and may be limited during active VPN connections. ⁸Bluetooth Low Energy is standard only on the HP LaserJet Enterprise M608x and M609x models, and it cannot be added to other models. Bluetooth is a trademark owned by its proprietor and used by HP Inc. under license.

HP Services

Downtime can have serious consequences, so HP provides support beyond the standard warranty. You benefit from reduced risk, maximized uptime, predictable service delivery and no unbudgeted repair costs. HP Care Pack Services provide a comprehensive suite of protection services designed to keep HP hardware and software up and running so employees can stay productive.

For carepack availability visit: hp.com/go/cpc:

Top features

Only HP Enterprise printers repair themselves from attacks in real time while offering outstanding manageability. Automatically monitor threats, detect intrusions, and validate operating software while centrally managing your fleet with ease.

With speeds up to 65 pages per minute, ³ fast first page out, and a variety of paper-handling options, you get confidence that your employees can speed through their tasks without interruption.

Get more pages and help protect your printer using Original HP Toner cartridges with JetIntelligence.⁶

Accessories

2MU47A HP Accessibility Assistant

2NR03A HP 1 GB 90-pin DDR3 DIMM

2NR12A HP Removable Hard Drive Enclosure

3JN69A HP Jetdirect 3100w BLE/NFC/Wireless Accessory

5ELO3A HP TAA Version Secure Hard Disk Drive

B5L28A HP Internal USB Ports

B5L29A HP High-Performance Secure Hard Disk

CC543B HP SmartCard NIPRNet Solution for US Government

F5S62A HP Trusted Platform Module Accessory

G6W84A HP 1 GB 90-pin DDR3 DIMM

HG271TT HP Barcode Printing Solution - USB

HG277TT HP MICR Printing Solution - USB

HG281TS HP Barcodes and More Printing Solution for USB version 2 slot based LaserJet

HG282TT HP Scalable Barcodes Printing Solution for USB version 2 slot based LaserJet

J8030A HP Jetdirect 3000w NFC/Wireless Accessory

J8031A HP Jetdirect 2900nw Print Server

J8J96A HP Staple Cartridge Refill

LOH17A HP LaserJet 550-sheet Paper Tray

LOH18A HP LaserJet 2100 Sheet Paper Tray

LOH19A HP Laser let Printer Stand

LOH20A HP Laser let Stapler/Stacker/Mailbox

LOH21A HP LaserJet Envelope Feeder

LOH22A HP LaserJet Extension Tray Cover

Supplies

HP 37A Black Original LaserJet Toner Cartridge (11,000 yield) CF237A

HP 37X High Yield Black Original LaserJet Toner Cartridge (25,000 yield) CF237X

HP 37Y Extra High Yield Black Original LaserJet Toner Cartridge (41,000 yield) CF237Y

Services

U9NE2E - HP 5 year Next Business Day HW Support w/Defective Media Retention

U9NE5E - HP 5 year 4 hour 9x5 HW Support w/Defective Media Retention

U9NE8E - HP 5 year 4 hour 13x5 HW Support w/Defective Media Retention

U9NF1E - HP 5 year Next Business Day Call To Repair HW Support w/DMR

U9NF4E - HP 5 year Next Business Day Exchange Service

U9NG5PE - HP 2 year Post Warranty Next Business Day Hardware Support w/DMR

U9NG7PE - HP 2 year Post Warranty 4 hour 9x5 Hardware Support w/DMR

U9NG8PE - HP 1 year Post Warranty 4 hour 13x5 Hardware Support w/DMR

U9NH0PE - HP 2 yr Post Warranty Next Business Day Call To Repair HW Support w/DMR

U9NH1PE - HP 1 year Post Warranty Next Business Day Exchange Service



² HP Web Jetadmin is available for download at no additional charge at http://www.hp.com/go/webjetadmin ³ Measured using ISO/IEC 24734, excludes first set of test documents. For more information, see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application,













driver, and document complexity.

Measured after 15 min in sleep. Exact speed varies depending on the system configuration, software application, driver, document complexity and time in sleep.

Based on HP testing using the ENERGY STAR® program's Typical Electricity Consumption (TEC) method or as reported in energystar.gov versus the top three leading competitors as of 8/2015. Actual results may vary. For details see http://www.hp.com/go/Ljclaims

⁶ More pages versus predecessor cartridges claim based on page-yield comparison of HP 37X High Yield Black Original LaserJet Toner Cartridges with HP 87X High Yield Black Original LaserJet Toner Cartridges. For more information, see http://www.hp.com/go/learnaboutsupplies

HP 37X High Yield Black Original LaserJet Toner Cartridges not included; please purchase separately.

⁸ An FCC Class A emissions compliant device meets the less stringent (higher) levels of emissions allowed by the FCC for a product operation in a commercial environment. An FCC class A device cannot be marketed for use in a residential environment and an FCC class A device should not be purchased for use in a residential environment due to the increased risk of interference to radio communications

HP LaserJet Enterprise M608 series

Model	HP LaserJet Enterprise M608n	HP LaserJet Enterprise M608dn	HP LaserJet Enterprise M608x
Product number	K0Q17A	K0Q18A	K0Q19A
Print			•
Print speed ^{7,9,8}	Letter: Up to 65 ppm Black; First page out: As fast as 5.3 sec Black; Print speed (Landscape, A5): Up to 100 ppm Black	Letter: Up to 65 ppm Black; 2-sided: Up to 53 ppm Black; First page out: A	s fast as 5.3 sec Black; Print speed (Landscape, A5); Up to 100 ppm Black
Print resolution	Black (best) Up to 1200 x 1200 dpi; Black (normal) FastRes 1200; Black (fin		
Print resolution Print technology	Laser; Print resolution technology: FastRes 1200; 1200 x 1200 dpi	e tines) up to 1200 x 1200 api	
Print certridges number	1 (black)		
Standard print languages	HP PCL 6, HP PCL 5 (HP PCL 5 driver available from the Web only), HP posts	crint level 3 emulation, native DDF printing (v.1.7). Apple AirDrint™	
Printer smart software	Print preview, print multiple pages per sheet (2, 4, 6, 9, 16), collation,		
features	watermarks, store print jobs, easy-access USB	Print preview, duplex printing, print multiple pages per sheet (2, 4, 6, 9, 16	b), collation, watermarks, store print jobs, easy-access USB
Printer management / HP SureSupply	HP JetAdvantage Security Manager; HP SNMP Proxy Agent; HP Web JetAdm	iin Software; HP WS Pro Proxy Agent; Printer Administrator Resource Kit for H	IP Universal Print Driver/ Yes
Connectivity			
Standard connectivity	1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit/Fast Ethernet 10/100/1000 Base-TX network; Hardware Integration Pocket		1 Hi-Speed Device USB 2.0; 2 Hi-Speed USB 2.0 Host; 1 Gigabit/Fast Ethernet 10/10/1000 Base-TX network; Hardware Integration Pocket; 1 Wi-Fi direct 802.11b/g/n; 1 Bluetooth low energy I/0
Network capabilities	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supp Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n wireless networkin	oorts: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast g (optional).	Yes, via HP Jetdirect Ethernet embedded print server (standard) which supports: 10Base-T, 100Base-Tx, 1000Base-T; 802.3az (EEE) support on Fast Ethernet and Gig Links; IPsec (standard); 802.11a/b/g/n wireless networking (standard).
Wireless capability	Optional, enabled with purchase of HP Jetdirect 2900nw Print Server J8031	A or HP Jetdirect 3000w NFC/Wireless Accessory J8030A	
Mobile printing capability ⁶	HP ePrint; Apple AirPrint™; Mopria-certified		HP ePrint; Wireless direct printing; Apple AirPrint™; Mopria-certified
Memory	Standard: 512 MB; Maximum: 1.5 GB, MAX memory, when 1GB Accessory D	IMM is installed	<u> </u>
Processor speed	1.2 GHz / Storage ¹⁰ : 4 GB EMMC / Hard disk: Optional, 500 GB (with accesso		
Duty cycle (monthly)	Letter:Up to 275,000 pages; Recommended monthly page volume: 5000 to	25000	
Paper handling			
Input	100-sheet multipurpose feeder, 550-sheet input feeder; Up to 650 sheets	Standard	100-sheet multipurpose feeder, 550-sheet input feeder, 550 accessory feeder; Up to 1200 sheets Standard
Output	Standard: 500 sheet output bin; Up to 500 sheets Standard; Transparencie:	s: 200	reeder, op to 1200 sneets standard
Dunlex Ontions	Manual (driver support provided)	Automatic (standard)	
Envelope feeder	Yes, 75 (optional)	natorialic (standard)	
Standard paper trays	2		3
Media types	Paper (plain, light, bond, recycled, heavy, extra heavy, cardstock, pre-printe	d, pre-punched, colored, rough, heavy rough), mono transparency, labels, leti	terhead, envelope, heavy envelope
Media weight	Feeder 1: 16 to 53 lb bond (plain), 16 to 24 lb (envelopes); feeder 2: 16 to 3		Feeder 1: 16 to 53 lb bond (plain), 16 to 24 lb (envelopes); feeder 2, 3: 16 32 lb bond (plain)
Media sizes	feeder 1: Letter, legal, statement, executive, Oficio (8.5 x 13 in), envelopes [executive, legal	No. 9, No. 10, Monarch(7 3/4)], 3 x 5, 4 x 6, 5 x 7, 5 x 8; feeder 2: letter,	feeder 1: Letter, legal, statement, executive, Oficio (8.5 x 13 in), envelopes [No. 9, No. 10, Monarch(7 3/4]], 3 x 5, 4 x 6, 5 x 7, 5 x 8; feeder 2: letter, executive, legal; feeder 3: letter, executive, legal
Media Sizes Custom	feeder 1: 3 x 5 to 8.5 x 14 in; feeder 2: 3.90 x 5.83 to 8.5 x 14 in		feeder 1: 3 x 5 to 8.5 x 14 in; feeder 2: 3.90 x 5.83 to 8.5 x 14 in. feeder 3: 3.90 x 5.83 to 8.5 x 14 in
Dimensions (w x d x h)	17 x 18.3 x 15 in; Maximum: 17 x 40.9 x 17.8 in		17 x 18.3 x 19.9 in; Maximum: 17 x 43.3 x 22.9 in
Weight	47.7 lbs		58 lbs
What's in the box ²		; CD with software drivers and documentation;Documentation (Hardware Inst	
Replacement cartridges ⁵	I (E237V		HP 37Y Extra High Yield Black Original LaserJet Toner Cartridge (41,000 yield)
Warranty features	(wty code 4G)	is vary by product, country and local legal requirements. Go to np.com/suppo	ort to learn about HP award winning service and support options in your region.
Energy efficiency compliance	. ,	ENERGY STAR® qualified; EPEAT® Silver; EPEAT® Gold (#AAZ, #201 options	
Control panel	2.7-in (6.86 cm) QVGA LCD (color graphics) rotating (adjustable angle) displi	ay with 24 key pad	4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) display; Home button
Control panel	2.7-III (6.86 CIII) QVGA ECD (Color graphics) rotating (adjustable angle) displi	ay with 24-key pau	
Display	2.7-in (6.86 cm) QVGA LCD (color graphics) rotating (adjustable angle)		4.3-in (10.92 cm) Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle)
Software included	HP Connected, HP Device Experience (DXP), HP PCL 6 (XPS) Printer Driver, H	P Software Installer/Uninstaller, Mac OS Welcome Screen (Directs users to 12	
	105 internal TrueType fonts scalable in HP PCL 92 internal scalable fonts in	HP postscript level 3 emulation (Euro symbol built-in): 1 internal Unicode Ed	onts (Andale Mono WorldTyne): 2 Internal Windows Vista 8 Fonts (Calibri.
Fonts and typefaces	Cambria); Additional font solutions available via third-party flash memory of	ards; HP LaserJet Fonts and IPDS Emulation available at http://www.hp.com/	/go/laserjetfonts
Compatible operating systems	42.1), Linux Ubuntu (12.04, 14.04, 15.10, 16.04, 16.10), OS macOS 10.12 S	Sierra, OS X 10.10 Yosemite, OS X 10.11 El Capitan, UNIX, Windows 10 all 32-	(17, 17.1, 17.2, 17.3, 18), Linux Red Hat Enterprise (6.0, 7.0), Linux SUSE (13.2 & 64-bit editions (excluding RT OS for Tablets), Windows 7 all 32- & 64-bit), Windows XP SP3 32-bit editions (XP Home, XP Pro, etc.)
Compatible network operating systems	Citrix MetaFrame Presentation Server 3.0, Citrix MetaFrame XP Presentation Server (1920) (192		
Minimum system requirements	Mac: 1.3 GB available hard disk space; US hardware requirements see microsof Mac: 1.3 GB available hard drive space; Internet; OS hardware requirements	t.com; see Apple.com for more info	
Power ⁴	Power supply type: Built in 115V or 220V Power Supply (Not dual voltage, power supply varies by part number with # Option code identifier); Power supply nominal +/- 3+lz (min 47Hz, max 63Hz), 12 A; 220V - 240V nominal, @ -/- 10% (min 198V, Max 264V); 50 - 60Hz nominal +/- 3Hz (min 47Hz, max 64); 61eep), <0.1 watts (Mauto dl); 70 - 10 watts (Mauto dl); 70		ply required: 100V - 127V nominal @ +/-10% (min 90V, max 140V); 50 - 60Hz 2), 6 A: Power consumption ² : 780 watts (printing), 15.3 watts (ready), 3.1 watts water Best tephoical electricity consumption (TET): 2 69A (Why house)
Acoustics	Acoustic nower emissions: 6.9.8(A)		Acquistic power emissions: 6.9 R(A)
	Operating temperature range: 50 to 90 5°F : Recommended operating tem	perature: 59 to 80 69F : Storage temperature range: -4 to 1049F : Operating h	numidity range: 10 to 80% RH; Recommended operating humidity range: 30 to
Operating environment Security management	170% RH Identity management: Kerberos authentication; LDAP authentication; 1000 user PIN codes; optional HP and 3rd party advanced authentication; solutions (e.g., badge readers); Network: Psec/frievall with Certificate; Pre- Shared Key; and Kerberos authentication; Supports WIA-10 IPsec configuration Plug-in; 802.13 authentication (EAP-PEAP_EAP_IS); SNMPV3; HTTPS; Certificates; Access Control List; Data: Storage Encryption; Encrypted PDs & Email (uses FIPS_140 validated cryptographic libraries from Microsoft); Secure Erase; SSL/TLS (HTTPS); Encrypted Credentials; Device: Security lock Sclit VSB port disablement; Intrusion Detection with Red Balloon Security Technology - Constant in-device monitoring for attacks; SureStart Secure Boot: BIOS Integrity Checking with self-healing capability, Whitelisting - loads only known good code (DLLs; EXEs,); Security management: Compatible with HP JetAdvantage Security Managel Device Security Syslog Messages processed and accessable in Arcsight and Splunk SIEMS.	Identity management: Kerberos authentication; LDAP authentication; 100 (e.g.; badge readers); Network: IPsec/firewall with Certificate; Pre-Shared 802.1X authentication (EAP-PEAP: EAP-TLS); SNMPV3; HTTPS; Certificates FIPS 140 validated crystopraphic libraries from Microsoft); Secure Frase; Secu	O user PIN codes; optional HP and 3rd party advanced authentication solutions (key; and Kerberos authentication; Supports WJA-10 IP-sec configuration Plug-ir; Access Control List; Data: Storage Enrorytion; Enroryted PDF & Email (uses SL/TLS (HTTPS); Enroryted (Fendentials; Device; Security lock sit; USB port Detection with Red Balloon Security Technology - Constant in-device monitoring capability, Whiteletting Dasso only Incomy appd cod cell Cults, EMEs,); Ref. powce Security Sysiog Messages processed and accessable in Arcsight and

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¹ EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country.

² Cartridges included; yields 11,000 black pages based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/learnaboutsupplies

³ Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty.

⁴ Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty. Energy Star value typically based on measurement of 115 V device.

⁵ Average color composite (C/M/Y) and black declared yields based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details see http://www.hp.com/go/learnaboutsupplies

⁷ Measured using ISO/IEC 24734, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and

⁸ Measured using ISO 24734 Feature Test, A5 Landscape Feed. Speed may vary based on content, PC, media orientation, and media type.

9 Measured using ISO/IEC 17629. For more information see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

10 eMMC is non-volatile storage; Firmware encryption (AES 128 or AES 256) of customer/job data; Secure Cryptographic Erase – Job Data; Secure Erase – Disk

¹¹ Declared yield value in accordance with ISO/IEC 19752. Actual yields vary considerably based on images printed and other factors. For more information, visit http://www.hp.com/go/learnaboutsupplies 12 1 GB "Slim DIMM" G6W84A