Model Number: HP PageWide Pro MFP P777z Part Number: Manufacturer: HP, Inc. 1115 SE 165th Ave, Suite 210 Vancouver, WA 98683 Volatile Memory Does the item contain volatile memory (i.e., memory whose contents are lost when power is removed)? Yes. Type (SRAM, DRAM, etc): DDR3 DRAM (3 devices) Type (SRAM, DRAM, etc): DDR3 DRAM (1 device) No Wes Modifiable: Type (SRAM, DRAM, etc): DDR3 DRAM (1 device) No No Wes Modifiable: Type (SRAM, DRAM, etc): DDR3 DRAM (1 device) No No No No No No No No No N
P777z HP, Inc. 1115 SE 165 th Ave, Suite 210 Vancouver, WA 98683 Volatile Memory Does the item contain volatile memory (i.e., memory whose contents are lost when power is removed)? Yes No If the answer is "Yes", please provide the following information for each type (use additional sheets if required type (SRAM, DRAM, etc): DDR3 DRAM (3 devices) Type (SRAM, DRAM, and size) Type (SRAM, DRAM, etc): DDR3 DRAM (1 device) Ves No Volatile Memory Liser Modifiable: Size Size: 1 Yes No No Volatile Memory Frocess to Sanitize: Power Off printer Process to Sanitize: Power Off printer Process to Sanitize: Power Off printer Process to Sanitize: Power Off printer No No No No No No No No No N
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Does the item contain volatile memory (i.e., memory whose contents are lost when power is removed)? Yes
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etc): DDR3 DRAM (3 devices) 512MB + 512MB, and 512MB and 512MB Type (SRAM, DRAM, etc): DDR3 DRAM (1 device) Size: 256MB, DDR3 DRAM (1 device) No Size: 256MB, DDR3 DRAM (1 device) No No No No No No No No No N
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Type (SRAM, DRAM, etc): DDR3 DRAM (1 device) Size: 256MB, No No-Volatile Memory Does the item contain non-volatile memory (i.e., memory whose contents are retained when power is
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Type (SRAM, DRAM, etc): DDR3 DRAM (1 device) Size: 256MB, DDR3 DRAM (1 device) No Non-Volatile Memory Does the item contain non-volatile memory (i.e., memory whose contents are retained when power is
etc): DDR3 DRAM (1 device) 256MB, No Yes decompressed system firmware Non-Volatile Memory Does the item contain non-volatile memory (i.e., memory whose contents are retained when power is
DDR3 DRAM (1 device) Non-Volatile Memory Does the item contain non-volatile memory (i.e., memory whose contents are retained when power is
system firmware Non-Volatile Memory Does the item contain non-volatile memory (i.e., memory whose contents are retained when power is
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Non-Volatile Memory Does the item contain non-volatile memory (i.e., memory whose contents are retained when power is
Does the item contain non-volatile memory (i.e., memory whose contents are retained when power is
romovody 🔲 Voc
removed)? Yes No
Type (eMMC, Flash, Size: User Modifiable: Function: Process to Sanitize:
EEPROM, etc):eMMC (1 16GB System On units with older versions of Firmward
device), Flash (1 device) eMMC
firmware 1N005), User preferences and user
upgrade, variables, image data, and encrypted jo
256MB system control storage and PIN printing cleared by data, user performing a reset via "Restore Factory"
Flash data, user performing a reset via "Restore Factory preferences, Defaults". Access to this function can be
user variables, found under:
image data, Home menu
and encrypted Support tools
job storage Maintenance
and PIN "Restore Factory Defaults"
printing.
On units with newer versions of Firmwa
(version LIMOFWPP1N006 or greater),
User preferences and user variables,
image data, and encrypted job storage
and PIN printing cleared by performing
reset via the "Cold Reset"
function. Access to this function can be
found under:
Home menu Support tools
Support tools Service (Note: the user needs to
enter the Service pin
number at this screen
and after, the unit will
boot into the Service
mode screen)
Maintenance
Restore Factory Defaults
Cold Reset

				A second method to sanitize Image data, encrypted job storage and PIN printing can be performed using the printer's Embedded Web Server (EWS). Using a web browser on the same network as the printer, browse to the printer's IP address. Select the "Settings" tab at the top, and then from the left navigation bar, select the "Security->Protect Stored Data" menu items. Near the bottom of the page will be the section called "Erase Job Data". Click on the "Erase Now" button. See the Administrator's Guide for more details.
Type (eMMC, Flash, EEPROM, etc): EEPROM (3 devices)	Size: 64kB 32kB and 32kB	User Modifiable: Yes No	Function: Contains system control data, user preferences, and variables.	Process to Sanitize: User preferences and variables are cleared the following way: Unplug AC power cord. While pressing the front of the unit's On/Off button, plug in the AC power cord. Hold the ON/OFF button until the unit boots up into a special mode with the screen blank and only "Home" and "Back" LED buttons lit on the front panel. Press "home, back, home, home", then "menu", then press "next" two times, then press "OK" to initiate a full reset. Please be aware you may want to do a "Restore Factory Defaults" from the Printer Maintenance screen after you do the full reset.
Type (eMMC, Flash, EEPROM, etc): EEPROM (2 devices)	Size: 64kB, and 64kB	User Modifiable: ☐ Yes ☐ No	Function: Contains backup of critical system control data.	Process to Sanitize: N/A, no user info stored here.
Type (eMMC, Flash, EEPROM, etc): Secure EEPROM	Size: 18kB	User Modifiable: ☐ Yes ☐ No	Function: Contains secure internal printer data.	Process to Sanitize: N/A, no user info stored here.
Type (eMMC, Flash, EEPROM, etc): EEPROM (1 device)	Size: 1kB,	User Modifiable: ☐ Yes ☐ No	Function: Contains internal printer data.	Process to Sanitize: N/A, no user info stored here.

Madi	ia	
Medi Does the item contain media storage capability (i.e., remo		emovable disk drives, tape drives
		omerable disk dives, tape dives,
memory cards, etc.)?	Function: System Firmware and firmware upgrade, system control data, user preferences, variables and Encrypted job storage and PIN printing.	Process to Sanitize: On units with older versions of Firmware (versions LIMOFWPP1N002 through 1N005), User preferences and user variables, image data, and encrypted job storage and PIN printing cleared by performing a reset via "Restore Factory Defaults". Access to this function can be found under: Home menu Support tools Maintenance "Restore Factory Defaults" On units with newer versions of Firmware (version LIMOFWPP1N006 or greater), User preferences and user variables, image data, and encrypted job storage and PIN printing cleared by performing a reset via the "Cold Reset" function. Access to this function can be found under: Home menu Support tools Service (Note: the user needs to enter the Service pin number at this screen and after, the unit will boot into the Service mode screen) Maintenance Restore Factory Defaults Cold Reset A second method to sanitize Image data, encrypted job storage and PIN printing can be performed using the printer's Embedded Web Server (EWS). Using a web browser on the same network as the printer, browse to the printer's IP address. Select the "Settings" tab at the top, and then from the left navigation bar, select the "Security->Protect Stored Data" menu items. Near the bottom of the page will be the section called "Erase Job Data". Click on the "Erase Now" button.
		See the Administrator's Guide for more

Additional Information:

The media storage capability described here is an option where the internal eMMC memory system can be upgraded from the standard 16GB to the optional 128GB. The fact this memory can be upgraded makes it "removable" from the upgrade standpoint, but it is not "removable" in the same fashion as is a USB thumb drive. Job storage data, Pin Printing data and Digital send data are encrypted using an AES 256 encryption algorithm. User private data and Fax data use an AES 128 encryption algorithm. While all user data, job storage data, Pin Printing data, Digital send data, and Fax data are encrypted on the eMMC memory (standard or upgrade sizes), the process of encryption is a software process which provides the encryption capabilities.

USB
Does the item accept USB input and if so, for what purpose (i.e Print Jobs, device firmware updates, scan upload)?
Yes - Purpose is for Print Jobs, Device FW updates, scan uploads and 3 rd part application loading.
Can any data other than scan upload be sent to the USB device?
Yes -Diagnostic service logs can be uploaded. Back-up of encrypted system settings. Supports Hardware Integration Pocket (HIP) devices.
Additional Information. This was duet has both a HOD device most and CHOD has tracted. Data on the HOD has tracted and
Additional Information: This product has both a USB device port and 2 USB host ports. Data on the USB host ports can be accessed from the device port. Also, an internal mini-B USB port enables an accessory option where a Hardware Integration Pocket (HIP) device can be added. The HIP option conforms to the HIP protocol and enables both HP and 3 rd party hardware/software. The HIP device does not ship with the product and is added by the user as an option.
RF/RFID
Does the item use RF or RFID for receive or transmit of any data including remote diagnostics. (e.g. Cellular
Phone, Wifi, Bluetooth) Yes - Wifi If yes, what is the purpose_WiFi connectivity for printer activity such as print jobs and printer configuration If yes, what is the frequency 2.4GHz ISM band (2400-2500MHz) and 5GHz U-NII-1,2,3 band (5.1-5.9GHz) Bandwidth_20MHz and 40MHz; Typical speed for 20MHz BW = 50Mbps/ 40MHz BW = 100Mbps Modulation_DSS(Direct sequence spread spectrum), DBPSK, DQPSK, CCK, OFDM Effective Radiate Power (EIRP)_20.5 dbm Specifications_802.11a/n
Additional Information: This product uses WiFi connectivity for printer activity such as print jobs and printer configuration.
RF/RFID
Does the item use RF or RFID for receive or transmit of any data including remote diagnostics. (e.g. Cellular
Phone, Wifi, Bluetooth) Yes - Bluetooth 4.0
Additional Information: This product uses Bluetooth 4.0 connectivity for easier attachment with printer Networking
subsytems
Other Transmission Capabilities
Does the device employ any other methods of non-wired access to transmit or receive any data
whatsoever (e.g. anything other than standard hard wired TCP/IP, direct USB, or parallel connections)?
Yes - NFC No
If yes, what is the purpose: Near-Field Authentication (NFC) with printer Networking subsystems
If yes, what is the frequency 13.56 MHz; Bandwidth 848 kbit/s max:
Modulation: ISO/IEC 14443B; Effective Radiate Power (ERP): 0 Watts (passive writer only). SpecificationsRF Standard ISO/IEC 14443B and NFC Tag Type 4B
Additional Information: This product uses NFC connectivity for Authentication with printer Networking subsytems

		Capabilities	
		nunications such as a Modem to	transmit or receiv
any data whatsoev			
Yes - FAX	☐ No		
If yes, what is the pu			
Specifications: T.30	FAX protocol standard for FAX co	mmunication.	
	Within T.30, we use V21 protocol as		
	Within T.30, we use V.17, V.29, and		
	= Slow (9.6Kbps), Medium (14.4Kbps	s), and Fast (33.6Kbps).	
	setting = Medium (14.4Kbps)		
	bps = thousand bits per second		
Note: If	line transmission is poor, the data pro	itocole may lower eneed	
14010. 11	into transmission is poor, the data pro	nocola may lower specu.	
TVOCE. II	inte transmission is poor, the data pre	nocols may lower specu.	
		FAX transmissions over a standard to	elephone line.
			elephone line.
	on: This product can send and receive		elephone line.
Additional Information	on: This product can send and receive	FAX transmissions over a standard to	Business Unit:
	on: This product can send and receive Vendor Engineer/SME	FAX transmissions over a standard to	
Additional Information	Vendor Engineer/SME Title: Technical Marketing	Representative Information Email:	Business Unit:
Additional Information	vendor Engineer/SME I	Representative Information Email:	Business Unit:
Additional Information	Vendor Engineer/SME Title: Technical Marketing	Representative Information Email:	Business Unit:
Additional Information Name: Richard Seton Name:	Vendor Engineer/SME I Title: Technical Marketing Engineer Title:	Representative Information Email: technical.marketing@hp.com Email:	Business Unit: IPG Business Unit:
Additional Information Name: Richard Seton	Vendor Engineer/SME I Title: Technical Marketing Engineer	Representative Information Email: technical.marketing@hp.com	Business Unit: