

Letter of Volatility				
Model Number: HP PageWide Pro MFP 377dw HP PageWide Pro MFP 477dw	Part Number: J9V83 D3Q20	Manufacturer: Street Address: 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)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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	Size: 512MB	User Modifiable: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Function: Contains decompressed system firmware and print data during printing	Process to Sanitize: Power Off printer
Non-Volatile Memory				
Does the item contain non-volatile memory (i.e., memory whose contents are retained when power is removed)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Type (eMMC, Flash, EEPROM, etc): NAND Flash	Size: 256MB	User Modifiable: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Function: System Firmware including firmware updates, system control data, user preferences, and stored print and FAX jobs. This function can be disabled and settings locked using admin password.	Process to Sanitize: User preferences cleared by performing various resets via "Support" menu. Access from Home menu by pressing "back, back, back, back". Stored print and FAX jobs cleared through printer embedded Web server functions. See the Administrator's Guide for more details.
Type (eMMC, Flash, EEPROM, etc): EEPROM (2 separate devices)	Size: 32KB and 32KB	User Modifiable: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Function: Contains system control data, user preferences, and variables.	Process to Sanitize: Cleared by performing various resets via "Support" menu. Access from Home menu by pressing "back, back, back, back". See the Administrator's Guide for more details.
Type (eMMC, Flash, EEPROM, etc): EEPROM	Size: 64KB	User Modifiable: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Function: Contains backup of critical system control data and critical user preferences.	Process to Sanitize: N/A, no user data stored.
Type (eMMC, Flash, EEPROM, etc): Secure EEPROM	Size: 17KB	User Modifiable: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Function: Contains secure internal printer data.	Process to Sanitize: N/A, no user info stored here.
Media				
Does the item contain media storage capability (i.e., removable or non-removable disk drives, tape drives, memory cards, etc.)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Type (Disk, Tape, Memory Card, etc): USB thumb drive (user supplied) Removable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Size: User supplied	User Modifiable: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Function: Optionally supplied by the user. Stored print and FAX jobs can be stored onto an external thumb drive. Stored jobs are encrypted using keys unique to the individual printer. This function can be disabled and settings locked using admin password.	Process to Sanitize: Stored print and FAX jobs cleared through printer embedded Web server functions.
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Additional Information:

USB

Does the item accept USB input and if so, for what purpose (i.e., Print Jobs, device firmware updates, scan upload)?

- Yes If yes, describe below
 No

Additional information:

The rear type B USB port can accept print and FAX jobs, printer configuration, and return printer status.
The front, type A USB port can be used for providing files and photos to be printed, and to stored scan data.

The function of the USB ports can be disabled and settings locked using admin password.

Can any data other than scan upload be sent to the USB device?

- Yes If yes, describe below
 No

Additional Information:

A thumb-drive can be added to the rear USB A port and the printer configured to use it to store stored print and FAX jobs. The files are encrypted using AES 256 encryption and cipher keys unique to the individual printer.

This function can be disabled and settings locked using admin password.

The function of the USB ports can be disabled and settings locked using admin password.

RF/RFID

Does the item use RF or RFID for receive or transmit any data including remote diagnostics (e.g., Cellular Phone, WIFI, or Bluetooth)?

- Yes If yes, describe below
 No

Purpose:

WIFI connectivity for printing activity such as receiving print jobs, printer status and configuration.

Frequency:

2.4GHz ISM band (2400MHz – 2500MHz)

Bandwidth:

36 Mbps avg., 54 Mbps peak

Modulation:

DSSS (Direct Sequence Spread Spectrum), DBPSK, DQPSK, CCK, OFDM

Effective Radiated Power (ERP):

20.5 dbm, max. ERP 22.5 dpm

Additional Information:

Complies with 802.11n. Used for printing, status and configuration.

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 If yes, describe below
 No

Purpose:

Near-Field Authentication with networking authentication subsystems.

Frequency:

13.56 MHz

Bandwidth:

0 dbm (passive writer only)

Modulation:

RF Standard ISO/IEC 14443B and NFC Tag Type 4B

Other Capabilities

Does the device employ any other method of communications such as a Modem to transmit or receive any data whatsoever?

- Yes If yes, describe below
 No

Purpose:

FAX

Specifications:

T.30 FAX protocol standard for FAX communication.
 Within T.30 – V.21 protocol as control channel
 Within T.30 -- V.23, V.32, and V.34 as data transfer protocols

Additional Information:

This product can send and receive FAX transmissions over a standard telephone line.

Vendor Engineer/SME Representative Information

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