Hewlett-Packard Certificate of Volatility					
Model: P		Part Number:		Address:	
HP PageWide Enterpri	se J7Z	12A		Hewlett Packard Company	
MFP 785zs				11311 Chinden Blvd	
				Boise, ID 83714	
		Vol	atila Mamany		
Deep the device contain w			atile Memory		
			e contents are lost when pow		
		User Modifiable:	unction, and steps to clear the		
Type (SRAM, DRAM, etc): DDR3 -DRAM	Size: 5.5 GB		Function:	Steps to clear memory:	
DDR3-DRAW	5.5 GB	🗌 Yes 🖾 No	Contains decompressed systen firmware and print data during	When the printer is powered off, the memory is erased.	
			printing	on, the memory is elased.	
			printing		
Type (SRAM, DRAM,	Size:	User	Function:	Steps to clear memory:	
etc):	2 GB	Modifiable:	Contains system acceleratio	n When the printer is powered	
DDR3 -DRAM		🗌 Yes 🖾 No	software	off, the memory is erased.	
	0				
Type (SRAM, DRAM,	Size:	User	Function:	Steps to clear memory:	
etc):	128 MB	Modifiable:	Contains decompressed	When the printer is powered	
DDR3 -DRAM		🗌 Yes 🖾 No	system software	off, the memory is erased.	

Non-Volatile Memory				
Does the device contain non-volatile memory (Memory whose contents are retained when power is removed)?				
Type (Flash, EEPROM, etc): IOD EEPROM	Size: 64 KB	User Modifiable: ⊠ Yes □ No	Function: Store customer setting data for backup/restore	Steps to clear memory: There are no steps to clear this data.
Type (Flash, EEPROM, etc): EEPROM	Size: 32 KB	User Modifiable: ⊠ Yes ⊡No	Function: Contains system control data, user preferences and variables	Steps to clear memory: User preferences and variables cleared by performing various resets via "Support" menu.
Type (Flash, EEPROM, etc): EEPROM (2 devices)	Size: 64 KB & 64 KB	User Modifiable: ☐ Yes ⊠ No	Function: Contains backup of critical system control data and critical user preferences.	Steps to clear memory: Cleared by backing up data from a previously reset system.
Type (Flash, EEPROM, etc): Flash	Size: 128 MB	User Modifiable: ☐ Yes ⊠ No	Function: In-Line Finisher System Firmware and firmware upgrade, system control data.	Steps to clear memory: N/A
Type (Flash, EEPROM, etc): Secure EEPROM	Size: 18 KB	User Modifiable:	Function: Contains secure internal printer data.	Steps to clear memory: N/A
Type (Flash, EEPROM, etc): EEPROM (3 devices)	Size: 1 KB 1 KB 64 KB	User Modifiable: ☐ Yes ⊠ No	Function: Contains internal printer data	Steps to clear memory: N/A
Type (Flash, EEPROM, etc): Flash	Size: 4 MB	User Modifiable: ☐ Yes ⊠ No	Function: System Acceleration Firmware and firmware upgrade	Steps to clear memory: Firmware upgrade
Type (Flash, EEPROM, etc): eMMC	Size: 8 GB	User Modifiable: ☐ Yes ⊠ No	Function: System Acceleration Firmware and firmware upgrade	Steps to clear memory: Firmware upgrade
Type (Flash, EEPROM, etc): Flash	Size: 6 KB	User Modifiable: ☐ Yes ⊠ No	Function: Contains secure internal printer data.	Steps to clear memory: N/A

Mass Storage					
	Does the device contain mass storage memory (Hard Disk Drive, Tape Backup)?				
Yes 🗌 No If Yes ple	ease describ	be the type, size, f	unction, and steps to clear the me	emory below	
Type (HDD, Tape, etc):	Size:	User Modifiable:	Function:	Steps to clear memory:	
		🛛 Yes 🗌 No	System firmware and firmware	User preferences and variables	
HDD	320 GB		upgrade. System control data,	cleared by performing various	
			user preferences, variables and	resets via "Support" menu.	
			encrypted job storage and PIN	Encrypted job storage and PIN	
			printing.	printing Sanitization must 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	
				"Security" tab at the top, and then	
				from the left navigation bar, select	
				the	
				"Security->Protect Stored Data"	
				menu items. Select the types of	
				files to be erased and click on the	
				"Apply" button.	

USB

Does the item accept USB input and if so, for what purpose (i.e. Print Jobs, device firmware updates, scan upload)? ⊠ Yes □ No If Yes please describe below

Purpose is for Print Jobs, Device FW updates, scan uploads and 3rd part application loading.

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

Yes I No If Yes please describe below

Diagnostic service logs can be uploaded. Back-up of encrypted system settings. Supports Hardware Integration Pocket (HIP) devices.

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 3rd 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, Bluetooth) 🛛 Yes 🗌 No If Yes please describe below

Purpose: WiFi connectivity for printer activity such as print jobs and printer configuration

Frequency: 2.4GHz ISM band (2400-2500MHz) and 5GHz	Bandwidth: 20MHz and 40MHz; Typical speed for 20MHz	
U-NII-1,2,3 band (5.1-5.9GHz)	BW = 50Mbps/ 40MHz BW = 100Mbps	
Modulation: DSSS(Direct sequence spread spectrum),	Effective Radiate Power (ERP): 20.5 dbm	
DBPSK, DQPSK, CCK, OFDM		
Specifications: _802.11b/g/n		

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,			
Bluetooth) Xes Do If Yes please describe below			
Purpose: Bluetooth 4.0 connectivity for easier attachment with printer Networking			
Frequency: 2.4-2.5 GHz	Bandwidth: ~ 2 MHz		
Modulation: 1 Mbps GFSK	Effective Radiate Power (ERP): less than 10 dbm		
Specifications: BT 4.0 compliant			
This product uses Bluetooth 4.0 connectivity for device beaconing to printer Networking			
Subsystems			

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 🖾 No If Yes please describe below:			
Purpose:			
Frequency:	Bandwidth:		
Modulation:	Effective Radiate Power (ERP):		
Specifications			

Other Capabilities

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

 Yes
 No
 If Yes please describe below:

 Purpose: FAX

 Specifications: T.30 FAX protocol standard for FAX communication.

 Within T.30, we use V21 protocol as control channel

 Within T.30, we use V.17, V.29, and V.34 as data transfer protocols

 Speeds = Up to 33.6Kbps

 Note: Kbps = thousand bits per second

 Note: If line transmission is poor, the data protocols may lower speed.

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