



OCR + Barcode Fonts sos8026

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Programming Manual sos8026 family

The programming manual can be downloaded from this web site:

<http://sos8026.stethos.com>

[English technical programming manual](#)

Installation of the sos8026B solution

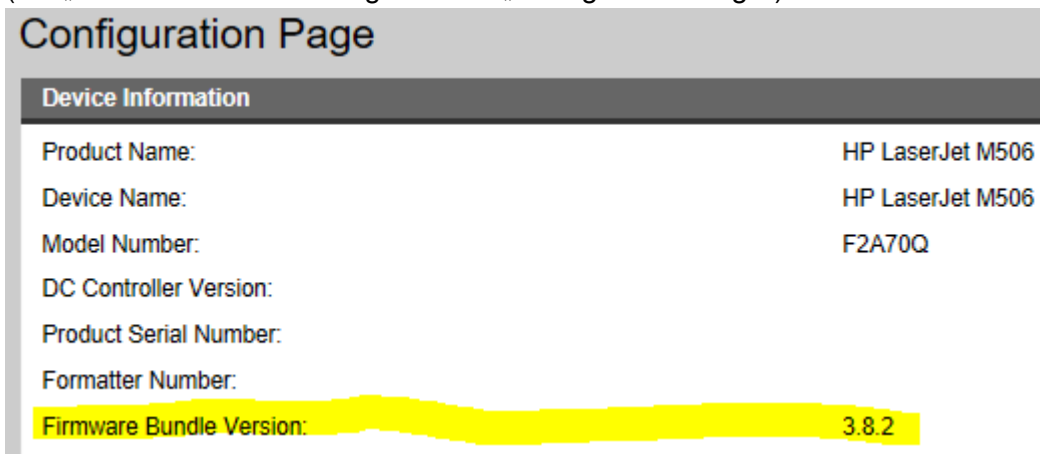
Method 1: Installation of BDL file via Embedded Web server

Prerequisites:

1. The Embedded Webserver has to be protected with an administrator password.
2. The proper sos8026-*<Version-No.>*.bdl or sos8026-*<Version-No.>*-sha1.bdl must be available.

Installation:

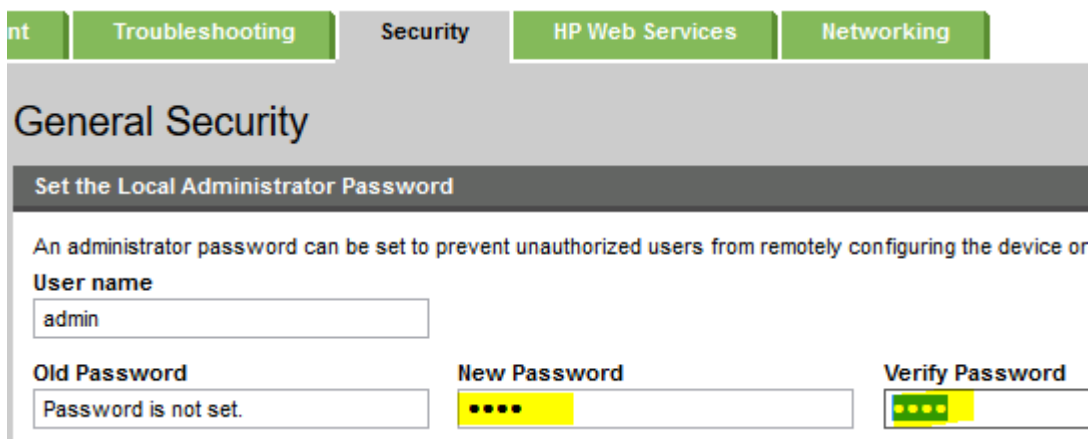
1. Open the Embedded Web server of the device (e.g. by typing the device's IP address into your web browser)
2. Check the Future Smart firmware version, e.g. via the configuration page of the device (tab „Information“ > left navigation bar „Configuration Page“)



The screenshot shows the 'Configuration Page' of an HP LaserJet M506. The 'Device Information' section lists the following details:

Device Information	
Product Name:	HP LaserJet M506
Device Name:	HP LaserJet M506
Model Number:	F2A70Q
DC Controller Version:	
Product Serial Number:	
Formatter Number:	
Firmware Bundle Version:	3.8.2

3. If there was no administrator password set for the Embedded Web server you need to set one:



The screenshot shows the 'General Security' page with the 'Set the Local Administrator Password' section. The page includes a navigation bar with tabs: 'nt', 'Troubleshooting', 'Security', 'HP Web Services', and 'Networking'. The 'Security' tab is active. Below the title, a message states: 'An administrator password can be set to prevent unauthorized users from remotely configuring the device or'. The form contains the following fields:

- User name:** A text box containing 'admin'.
- Old Password:** A text box containing 'Password is not set.'
- New Password:** A text box with four dots, highlighted in yellow.
- Verify Password:** A text box with four dots, highlighted in yellow.

At the bottom of the page you need to click on the „Apply“ button to confirm the changes.

4. Login on the Embedded Web server (top right):



The screenshot shows a green button with the text 'Welcome' and 'Sign In' in yellow.

5. Enter the password and click on the button „Sign In“:

The screenshot shows the 'Sign In' page. On the left is a navigation menu with links: Device Status, Configuration Page, Supplies Status Page, Event Log Page, Usage Page, Device Information, Control Panel Snapshot, Printable Reports and Pages, Other Links, HP Instant Support, Shop for Supplies, and Product Support. The main area has a 'Sign In' header. Below it are three fields: 'Sign In Method' (dropdown menu showing 'Local Device'), 'Local Device Account' (dropdown menu showing 'Administrator'), and 'Password' (text field with masked characters). At the bottom are two buttons: 'Sign In' and 'Cancel'.

6. Select the Solution Installer (tab „General“ > left navigation bar „Solution Installer“):

The screenshot shows the 'Solution Installer' page. At the top is a tab bar with 'Information', 'General' (selected), 'Print', 'Troubleshooting', 'Security', and 'HP Web'. On the left is a navigation menu with links: Alerts, Control Panel Administration Menu, AutoSend, Edit Other Links, Ordering Information, Device Information, Language, Date and Time, Energy Settings, Back up and Restore, Restore Factory Settings, Solution Installer (selected), Firmware Upgrade, and Quota and Statistics Services. The main area has a 'Solution Installer' header. Below it is a text block: 'Solutions are accessory software packages that can be installed on the device.' Then there is a section titled 'Install New Solution'. Under this, there is a 'Choose File' section with a 'Browse...' button, the filename 'sos8026-3.1.0.1.bdl', and an 'Install' button. Below this is a note: 'Note: Some solution installs will cause the device to restart.' Then there is a section titled 'Installed Solutions'. Below this is a text block: 'There are no solutions installed.' At the bottom is a 'Remove...' button.

7. Use the button „Browse“ to select the applicable BDL file:
- If the firmware version is 3.0 or higher: sos8026-*<Version-No.>*.bdl
 - If the firmware version is 1.x or 2.x: sos8026-*<Version-No.>*-sha1.bdl

Then install the BDL file via the „Install“ button.

8. The device needs a reboot: please confirm the restart by pressing the button „Restart Now“. Then wait until the device is ready again.

The screenshot shows the 'Confirmation Page'. It has a header 'Confirmation Page'. Below it is a yellow warning box with a warning icon and the text: 'Solution Installer The file has been uploaded and the device must restart to complete the installation.' At the bottom are two buttons: 'Restart Now' and 'Restart Later'.

9. Wait until the device is ready again then continue with the installation of the sos8026B USB module

Method 2: Printing via the Embedded Web server

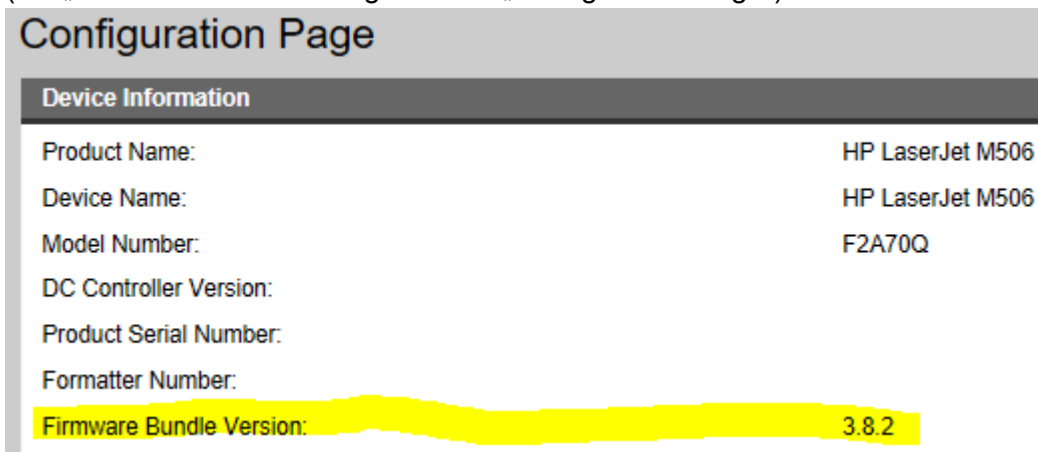
Prerequisites:

1. The proper sos8026-*<Version-No.>*.prn or sos8026-*<Version-No.>*-sha1.prn must be available.
2. The security settings must allow firmware upgrades sent as print jobs, see Embedded Web server in the tab „Security Settings“, category „Firmware Upgrade Security“:

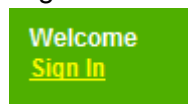


Installation:

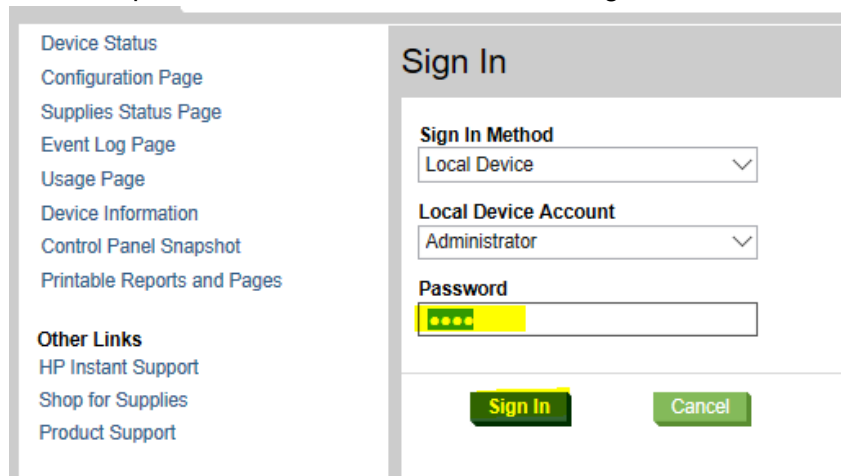
1. Open the Embedded Web server of the device (e.g. by typing the device's IP address into your web browser)
2. Check the Future Smart firmware version, e.g. via the configuration page of the device (tab „Information“ > left navigation bar „Configuration Page“)



3. Login on the Embedded Web server (top right):



4. Enter the password and click on the button „Sign In“:



If there is no password set please keep the password field empty and click directly on „Sign In“.

5. Open the following dialog via the tab „Information“ and select „Print“ in the left navigation bar:

The screenshot shows a web interface for a printer. At the top, there are five tabs: 'Information' (highlighted in yellow), 'General', 'Print', 'Troubleshooting', and 'Security'. On the left side, there is a navigation menu with the following items: 'Device Status', 'Job Log', 'Configuration Page', 'Supplies Status Page', 'Event Log Page', 'Usage Page', 'Device Information', 'Control Panel Snapshot', 'Remote Control-Panel', 'Print' (highlighted in blue), and 'Printable Reports and Pages'. The main content area is titled 'Print'. It contains the following elements: 'Device Status' with the text 'Sleep mode on'; a section titled 'Select the file to upload from your hard disk or network' with a 'Browse...' button (highlighted in yellow) and a file name 'sos8026-3.1.0.1.pjl' (highlighted in yellow); a note stating 'Note: Only 'print-ready' files (.txt, .ps, .pdf, .pcl, .cht, and processed)'; a 'Number of Copies' field with the value '1' and a range '(1-32000)'; and a green 'Print' button (highlighted in yellow).

6. Click on the button „Browse“ and select the applicable PRN file:
- If the firmware version is 3.0 or higher: sos8026-*<Version-No.>*.prn
 - If the firmware version is 1.x or 2.x: sos8026-*<Version-No.>*-sha1.prn

Send the PRN file to the printer by clicking on the button „Print“.

Attention: the device will reboot automatically.

7. Wait until the device is ready again then continue with the installation of the sos8026B USB module.

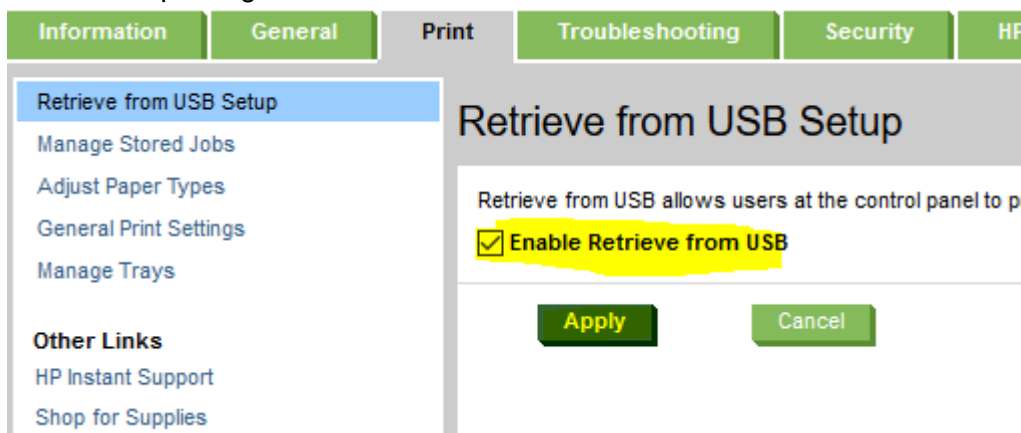
Method 3: USB Memory Stick (not included)

Prerequisites

1. The proper sos8026-*<Version-No.>*.prn or sos8026-*<Version-No.>*-sha1.prn must be available.
2. The security settings must allow firmware upgrades sent as print jobs, see Embedded Web server in the tab „Security Settings“, category „Firmware Upgrade Security“:

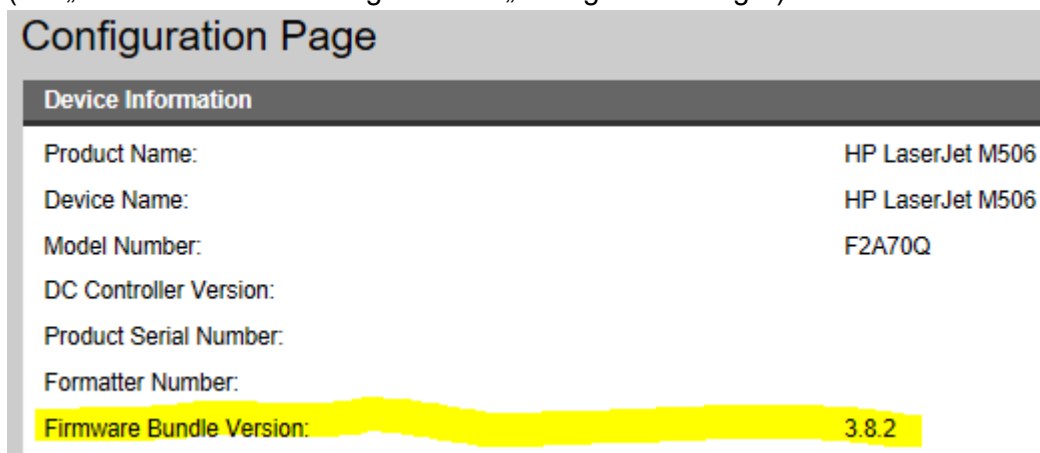


3. A USB memory stick (e.g. FAT formatted) must be available.
4. Direct USB printing must be enabled. See Embedded Web server tab „Print“:



Installation

1. Open the Embedded Web server of the device (e.g. by typing the device's IP address into your web browser)
2. Check the Future Smart firmware version, e.g. via the configuration page of the device (tab „Information“ > left navigation bar „Configuration Page“)



3. Plug-in a USB memory stick which is supported by the HP device (e.g. FAT formatted) to your workstation.
4. Copy the applicable PRN file into the root folder of the USB memory stick:
 - If the firmware version is 3.0 or higher: sos8026-*<Version-No.>*.prn
 - If the firmware version is 1.x or 2.x: sos8026-*<Version-No.>*-sha1.prn
5. Remove the USB memory stick safely from your workstation.
6. Plug-in the USB memory stick to any external USB port of the switched on device.

7. Confirm the following message by pressing OK:



8. Select the PRN file:



9. Attention: After the retrieval of the PRN file the device will reboot automatically.



10. If the device is ready again switch it off.
11. Remove the USB memory stick which holds the PRN file.
12. Then continue with the installation of the sos8026B USB module.

Additional methods (without detailed description)

FTP

If the FTP protocol (usually port 21) is enabled for the HP network adapter you can send the applicable PRN file via FTP binary transfer to the device.

LPR

If the LPR/LPD protocol (usually port 515) is enabled for the HP network adapter you can send the applicable PRN file via LPR to the device.

RAW

If the TCP RAW protocol (usually port 9100) is enabled for the HP network adapter you can send the applicable PRN file via RAW transfer to the device.

HP Web Jetadmin

BDL files can also be distributed by the „Solutions Repository“ in HP Web Jetadmin to the devices. Please note that stethos will not offer any support regarding HP Web Jetadmin and the corresponding installation method.

After each installation method please continue with the installation of the sos8026B USB module.

Installation of the sos8026B USB module

1. Switch off the device.
2. Plug-in the sos8026B module to the internal USB port of the device. If the device does not have any internal USB ports it can be equipped with an HP USB kit (for details regarding this USB kit please jump to the last page of this document or have a look at <http://stick.stethos.com>). As an alternative the sos8026B module can be attached to an external USB port also:



3. Switch on the device

Test

1. Login at the Embedded Web server
2. Go to the tab „General“ and select „Solution Installer“ in the left navigation bar:

Information **General** Print Troubleshooting Security HP Web Services Networking

Alerts
Control Panel Administration Menu
AutoSend
Edit Other Links
Ordering Information
Device Information
Language
Date and Time
Energy Settings
Back up and Restore
Restore Factory Settings
Solution Installer
Firmware Upgrade
Quota and Statistics Services

Solution Installer

Solutions are accessory software packages that can be installed to extend or modify the functionality of the product. After a solution is installed, it will appear in the Installed Solutions section below.

Install New Solution

Choose File
Browse... No file selected Install

Note: Some solution installs will cause the device to restart.

Installed Solutions

Name	Description	Vendor	Solution Version
<input type="checkbox"/> sos8026	sos8026 Barcodes	Stethos	3.1.0.1 (20170321)

If the sos8026 solution is installed like shown in the screenshot the sos8026 fonts are available.

3. Select the tab „Information“ and in the left navigation bar „Configuration Page“.
4. In the category „Installed Personalities and Options“ the sos8026B module must be listed as „SusbHID“:

Information **Configuration Page** Supplies Status Page Event Log Page Usage Page Device Information Control Panel Snapshot Printable Reports and Pages

Other Links
HP Instant Support
Shop for Supplies
Product Support

Configuration Page

Device Information

Product Name:	HP LaserJet M506
Device Name:	HP LaserJet M506
Model Number:	F2A70Q
DC Controller Version:	
Product Serial Number:	
Formatter Number:	
Firmware Bundle Version:	3.8.2
Firmware Revision:	2308542_565791
Firmware Datecode:	20160814
HP FutureSmart Level:	HP FutureSmart 3
NFC revision:	00000201
Service ID:	00000
PS Wait Time-out:	300 seconds
Engine Cycles*:	14
Cartridge Protection:	Off
Cartridge Policy:	Off
Cartridge Index:	

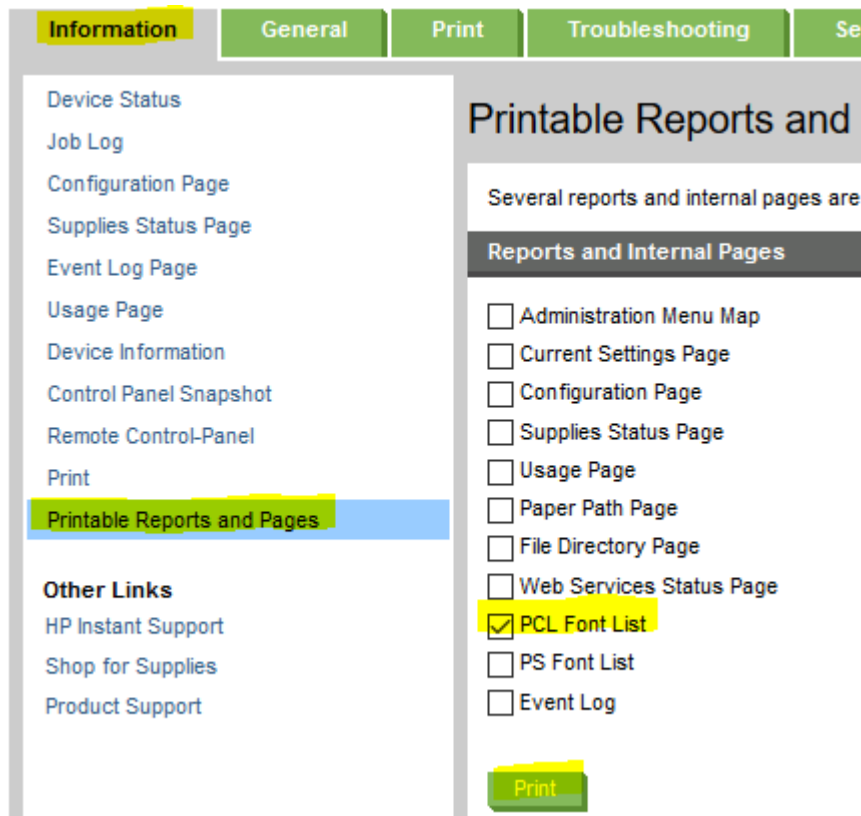
*Not weighted for billing

Installed Personalities and Options

PCL:	20010402
PCLXL:	20010402
POSTSCRIPT:	20010402
PDF:	20130901
AirPrint:	2040201
PWGRASTER:	2040201
TIFF:	20150522
Other USB Accessories:	
SusbHID	

5. In the tab „Information“ select „Printable Reports and Pages“ from the left navigation bar.

6. Select the „PCL Font List” and click on the button „Print“:



7. On the printed PCL font list check for the category „Internal Scalable and Bitmapped Fonts”. This section needs to contain bar code fonts:



Notes

1. The sos8026B USB module must stay in the device.
2. If the device will be replaced by another compatible device the recommend procedure is the following:
 - a. Installation according to the steps above.
 - b. Attach the sos8026B USB module to the new device.
 - c. Uninstall the sos8026 solution from the old device via tab „General“ and „Solution Installer“.

Devices without internal USB ports

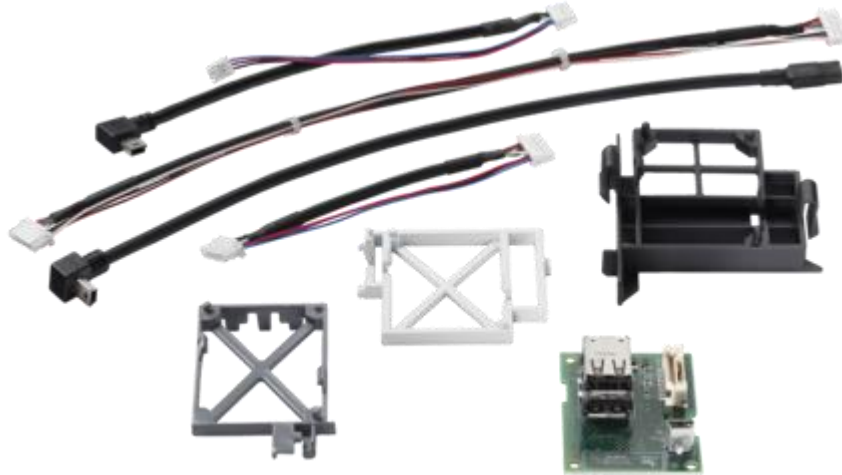
Most of the HP devices do not have internal USB ports when delivered out of the box. When using a USB barcode module from stethos you will require a separate HP accessory part number B5L28A.

Additional information and a device compatibility list is available on the HP website:

<http://hpusb.stethos.com>

The installation manual for HP part number B5L28A is available here: <http://B5L28A.stethos.com>

Picture HP B5L28A:



Note: stethos is unable to deliver the HP accessory part number B5L28A. If HP or your HP reseller cannot deliver this part in a reasonable timeframe, you can also attach the stethos USB barcode module to the external USB port on the rear of your HP LaserJet/PageWide device.

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