



HP Jetdirect 2700w USB Solution Print Server

Setup Guide



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1 Introduction

- [What you need for installation](#)
- [For more information](#)

Thank you for purchasing the HP Jetdirect 2700w USB Solution Print Server.



NOTE: The HP Jetdirect 2700w Print Server complies with IEEE 802.11 wireless standards.

What you need for installation

You need the following:

- The HP Jetdirect 2700w USB Solution Print Server.
- A supported Microsoft Windows, Apple Macintosh, or Linux/Unix computer.

An 802.11b, g, or n wireless LAN (WLAN) interface card must be installed.

The following operating systems are supported:

- Microsoft Windows Server 2003, Windows Server 2008, Windows 7, Windows Vista, Windows XP
- Mac OS X 10.4 and later
- UNIX/Linux: Hewlett-Packard HP-UX, Sun Microsystems Solaris, IBM AIX, HP MPE-i, RedHat Linux, SuSE Linux

For a complete list of supported operating systems, see [Embedded services on page 17](#).

- A supported HP printer or multifunction peripheral (MFP). Go to <http://www.hp.com/go/jetdirect> to see a current list of supported printers and MFPs.

Your printer/MFP must be operating properly. Use the documentation supplied with your printer/MFP to assemble and test the device.

- For wireless infrastructure mode only: An access point, wireless router, or Apple AirPort base station. The HP Jetdirect 2700w USB Solution Print Server allows your printer to be accessible on a WLAN through a specific access point.

In station (infrastructure) mode, an access point allows wireless devices to connect to your LAN (wired or wireless). For more information, see [Infrastructure mode on page 14](#).

- For supported Windows systems, the software driver for the printer/MFP.

When using the CD-ROM supplied with your network-ready printer/MFP, the network installation software includes the driver.

If necessary, you can obtain the printer/MFP driver from one of the following sources:

- The printer/MFP CD-ROM supplied with your network-ready device
- HP's support Web site: www.hp.com/go/support
- The latest firmware for the printer/MFP.

For more information

For support information, see [Service and support on page 31](#).

For additional configuration information about HP print servers, including the HP Jetdirect 2700w Print Server, see the *HP Jetdirect Print Servers Administrator's Guide* in Adobe Acrobat Reader PDF format. This guide is available at www.hp.com/go/jetdirect

For Adobe Acrobat PDF format documents, Adobe Acrobat Reader 4.0 or greater is required. Adobe Acrobat Reader is available free from Adobe's Web site at: www.adobe.com/products/acrobat/readstep.html.



NOTE: For Adobe Acrobat PDF format documents, the Adobe Acrobat Reader must be installed and available on your system.

If you have difficulty viewing PDF documents, upgrade to the latest released version of Acrobat Reader available from Adobe Systems Incorporated.

Documents provided in PDF format are compatible with screen readers used for accessibility.


2 Installation

- [Verify printer operation](#)
- [Install the hardware](#)
- [Verify print server operation](#)
- [Configure the print server using the HP Embedded Web Server](#)


Verify printer operation

To verify that your printer/MFP is working properly, print a configuration page. The configuration page displays the operating status of the printer/MFP.


The steps to print a configuration page can vary with the printer/MFP model. For most printers/MFPs with a control panel, a menu map is provided to navigate the control panel menus. To print a configuration page, use the menu map or see your printer/MFP documentation for specific instructions.

 **NOTE:** The name of the printer configuration page might also vary by printer type.

Install the hardware

 **CAUTION:** HP Jetdirect print servers contain electronic components that can be damaged by static electricity through electrostatic discharge (ESD). To prevent ESD damage, maintain frequent contact with any bare sheet metal surface on the printer. A grounding wrist strap (or similar device) is useful for this purpose. Avoid touching electronic components or circuit paths.

1. Upgrade the firmware on your printer/MFP. (See the printer/MFP's setup or user guide for firmware upgrade instructions.)
2. After the firmware is upgraded, plug the USB connector on the HP Jetdirect 2700w Print Server into the printer/MFP's USB connector on the back of the device. Tighten the thumb screws and ensure that the print server is held securely in place.

 **NOTE:** Only those printers/MFPs listed in the section [What you need for installation on page 1](#) are compatible with the HP Jetdirect 2700w Print Server.

3. Turn off and then restart the printer/MFP.
4. Verify that the printer/MFP is connected to your network using a network cable.

Verify print server operation


1. Print an HP Jetdirect configuration page to check for status messages.

The steps to print a configuration page can vary with the printer/MFP model. For most printers/MFPs with a control panel, a menu map is provided to navigate the control panel menus. To print a configuration page, use the menu map or see your printer/MFP documentation for specific instructions.

2. If a message other than `PRINT SERVER READY` appears, try the following:
 - Verify that the printer/MFP uses the latest firmware.
 - Verify that the HP Jetdirect 2700w Print Server is firmly attached to the printer/MFP.
 - Turn off the printer/MFP, reinstall the HP Jetdirect 2700w Print Server, and turn on the printer/MFP. Check for any displayed messages.


Configure the print server using the HP Embedded Web Server

You can now configure the HP Jetdirect 2700w Print Server by using the HP Embedded Web Server. This is done by accessing the IP address of the printer/MFP in which the print server is installed. The printer/MFP must be directly connected (wired) to your local network.

 **NOTE:** You can also configure the HP Jetdirect 2700w Print Server from the printer/MFP's control panel or by using the HP Install Network Printer Wizard (INPW), which is available for download from: www.hp.com/go/inpw_sw

Use the following steps to configure the HP Jetdirect 2700w Print Server:

1. Start a supported Web browser from a computer that is connected to your intranet.
2. Enter the IP address of the printer/MFP as the URL. For example: <http://nnn.nnn.nnn.nnn/>

 **NOTE:** You can typically locate the IP address by using the printer/MFP control panel or by printing a configuration page.

The HP Embedded Web Server is displayed.

3. Select the **Networking** tab.
4. From the **Configuration** menu, select **Wireless**.

The **Wireless** page displays all the wireless configuration parameters required to make a wireless connection to your network.

5. To use a wizard, which will guide you through the required 802.11 wireless configuration parameters, click **Wireless Wizard** in the **General** section. Remember to click **Apply** to save your settings.
6. Otherwise, enter the information needed to make a wireless connection to your network.
7. Click **Apply** to set, or **Cancel** to ignore your entries. To reset to factory-default values, click **Restore Defaults**.

3 Troubleshooting

- [HP Jetdirect configuration page](#)
- [Reset to factory defaults](#)
- [Network computers cannot communicate with the printer](#)
- [Configured channel does not match the configuration page](#)
- [Improve reception and performance](#)
- [Firmware download failure](#)

This chapter provides basic troubleshooting information. Additional information is provided in the *HP Jetdirect Print Servers Administrator's Guide* for the print server.

To troubleshoot the HP Jetdirect 2700w Print Server, you might need the following:

- An HP Jetdirect configuration page
- A printer configuration or diagnostic page
- Documentation that came with the printer
- Documentation for the HP Jetdirect 2700w Print Server (available from www.hp.com/go/jetdirect)
- The diagnostic tools and utilities provided with your network software (for example, TCP/IP utilities, or network printer management applications such as HP Web Jetadmin)

HP Jetdirect configuration page

The HP Jetdirect configuration page provides comprehensive print server status. It is an important diagnostic tool, especially if network communication with the print server is not available.


In most HP LaserJet printers/MFPs, an HP Jetdirect configuration page automatically prints when you print the printer configuration page. Refer to your printer/MFP documentation for instructions about printing configuration pages.

For a description of messages that might appear on the HP Jetdirect configuration page, see the *HP Jetdirect Print Servers Administrator's Guide*.

Reset to factory defaults

After you have configured the HP Jetdirect 2700w Print Server, the settings are saved in memory.


If you lose communication with the HP Jetdirect 2700w Print Server, or if it fails to operate properly, you might need to reset the print server to its factory-default configuration. This is called a cold reset.

 **NOTE:** Resetting the HP Jetdirect 2700w Print Server to factory-default settings will cause the print server to lose its wireless connection to your network. Reconfiguration of wireless network settings and reinstallation of the print server will be required.

Parameters on the HP Jetdirect 2700w Print Server can be reset to factory default values using the following procedures.

HP LaserJet printer/MFP reset

In most cases, the HP Jetdirect 2700w Print Server is reset to factory defaults when factory settings are reset on the printer/MFP.

 **CAUTION:** Be sure to print an HP Jetdirect configuration page before performing a reset. Resetting the printer clears all data from the printer memory and resets all printer settings, including network configurations, to their factory default values. After a reset, users will be affected due to changes in user-specified printer settings. Network systems will lose their connection to the printer.

After a reset, print an HP Jetdirect configuration page to confirm that factory-default values were assigned. You must now re-configure the HP Jetdirect 2700w Print Server. See [Configure the print server using the HP Embedded Web Server on page 6](#).

Service menu example

To perform a reset on many recent HP LaserJet printers and MFPs:

1. At the control panel, press the Home button.
2. Press the down arrow and highlight the **Administration** menu, then press the **OK** button.
3. Press the down arrow and highlight the **General Settings** menu, then press the **OK** button.
4. Press the down arrow and highlight the **Restore Factory Settings** option, then press the **OK** button to reset the product to the original factory settings.

Network computers cannot communicate with the printer

Check the following:

- If you previously configured the HP Jetdirect 2700w Print Server with a wireless connection to your network, but the network computers are unable to communicate with the printer, print an HP Jetdirect configuration page.
- The wireless computer must be configured to match the wireless network settings on the HP Jetdirect 2700w Print Server, including:
 - Communication mode
 - Network name (SSID) (case sensitive)
 - Security type
 - Encryption level, encryption key entries, or the specified transmit key
 - IP address
 - BSSID (Basic Service Set Identifier), which distinguishes one wireless LAN from another even though they have the same SSID
- The wireless function is turned on and operating properly (print an HP Jetdirect configuration page).
- The computer is within range of the HP Jetdirect 2700w Print Server.
- If the HP Jetdirect 2700w Print Server is in peer-to-peer mode, there are fewer than six devices total.
- If you are initially setting up the HP Jetdirect 2700w Print Server, and the connection fails after entering the configuration settings, reset the print server to factory-default settings (cold reset) and try again.

Configured channel does not match the configuration page

The HP configuration tools let you select channel 10 (default) or 11 on the HP Jetdirect 2700w Print Server. This channel is used by the print server to broadcast its network name (SSID) if it fails to detect and join an existing wireless network. If it is able to join a network, it reconfigures its channel to the one used by the network.

The HP Jetdirect configuration page identifies the network channel being used on a network. It does not show the broadcast channel used when a network is not detected.

Improve reception and performance

Wireless LAN radio signals can penetrate many indoor structures and can reflect around obstacles. However, wireless communication range and performance depends on a variety of factors, including the number of users, the quality and physical placement of the wireless hardware, and the sources of radio signal interference. (For example, microwave ovens and cordless telephones use similar frequencies that can interfere with wireless LAN signals.) In general, the HP Jetdirect 2700w Print Server's data transfer rates will decrease with increasing distance, obstructions, and interference.

For these symptoms

- The signal strength is poor or marginal.
- Print jobs are excessively slow.

Try these actions

- Reorient the printer. In general, having the print server pointed toward the access point or wireless computer improves reception and performance.
- Reduce or remove sources of interference. Metallic objects can absorb or attenuate radio signals, and devices such as microwave ovens and cordless phones operate using similar radio frequencies.
- Reduce the distance between the printer and the access point or wireless computer. This can be accomplished by:
 - moving the print server
 - moving the access point or wireless PC
 - adding an additional access point

Firmware download failure

The HP Jetdirect 2700w Print Server provides limited firmware upgrade capabilities. Firmware upgrades can be downloaded using HP Web Jetadmin, HP Embedded Web Server, or FTP (File Transfer Protocol).

If the firmware download fails to complete, restart the download without cycling power to the print server.

A Glossary

- [Wireless LAN terms and concepts](#)
- [Network printing terms and concepts](#)

Wireless LAN terms and concepts

Access point

An access point is a device that typically serves as a bridge or gateway between wireless devices and the devices on a cabled network. An access point must be able to receive and forward network traffic between wireless and cabled network devices. Multiple access points can act as repeaters to extend the range of a wireless network.

Connecting via an access point is called infrastructure mode. On Apple networks, this is called AirPort network mode.

Peer-to-peer mode

Peer-to-peer mode is a wireless network topology where wireless devices communicate with each other directly. An access point is not used. On Apple networks, this method is called computer-to-computer mode.



NOTE: HP recommends that you use infrastructure mode if you plan to use six or more devices.

When set in this mode, the HP Jetdirect print server receives print jobs directly from wireless computers.

Channels

IEEE standards for 802.11 wireless LANs specify a spectrum of radio waves for wireless communications. The allowed spectrum is divided into channels. 802.11b uses 22 MHz channels, 802.11g uses 20 MHz channels, and 802.11n can use either 20 MHz or 40 MHz channels (because


of channel bonding). The number of available channels authorized for use might be restricted based on your location.

- If the print server is powered on and discovers a wireless network whose SSID (network name) is also hpsetup, it automatically adjusts its channel to match that network.
- If the print server is reconfigured for infrastructure mode, it automatically adjusts its channel to match the access point.


Encryption

Wireless networks use radio signals for network communications, which can be easily monitored by someone eavesdropping on the network. To deter eavesdropping and to help ensure data privacy, encryption of wireless communications should be used.

For HP Jetdirect print servers in their factory-default state, encryption of wireless communications is disabled. However, the print servers support wi-fi protected access (WPA/WPA2) and other popular dynamic encryption protocols.

 **NOTE:** Wireless performance might be reduced when using encryption keys due to the additional processing time required.

Static encryption. WEP (Wired Equivalent Privacy) encryption protocols were developed to provide a basic level of data privacy. WEP protocols use static encryption keys to encrypt and decrypt wireless communications.

 **NOTE:** WEP encryption levels are sometimes called 40-bit, 64-bit, 104-bit, or 128-bit encryption. Forty-bit and 64-bit encryption are really the same, as are 104-bit and 128-bit encryption. When entering WEP keys, the user specifies 40 bits for 64-bit encryption, or 104 bits for 128-bit encryption. An additional 24 initialization vector (IV) bits are automatically added for a total of 64 bits and 128 bits, respectively. In this guide, 40/64-bit and 104/128bit are used to specify these WEP encryption levels.

For basic encryption, static WEP keys are configured on each device on the wireless network. WEP keys are considered static because they remain the same unless manually reconfigured. For example, on a typical infrastructure mode network that uses static WEP encryption, a change to the WEP key on an access point requires a manual change to the WEP key on each wireless device.

HP Jetdirect wireless print servers support configuration of up to four static WEP keys, for either 40/64-bit or 104/128-bit encryption.

Dynamic encryption. For advanced encryption methods, dynamic encryption protocols are used. For dynamic encryption protocols, encryption keys are automatically changed at routine intervals making them difficult to decipher.

Dynamic encryption protocols, such as dynamic WEP and Wi-Fi Protected Access (WPA/WPA2), provide a more secure wireless environment.

When configured for WPA/WPA2–Personal authentication, HP Jetdirect print servers use WPA encryption.

Infrastructure mode

Infrastructure mode is a wireless network topology where all wireless communications go through an access point. Infrastructure mode is called a Basic Service Set (BSS), and is sometimes referred to as enterprise mode. On Apple networks, infrastructure mode is called Airport network mode. When set in this mode, the HP Jetdirect print server receives print jobs from wireless network computers through an access point.

Security type

Security is used to validate the identification of each device or computer that is attempting to access a network. The security type used on a network is determined during network design and depends on the network security requirements. Consequently, security methods are closely associated with encryption options that are also used on the network.

HP Jetdirect wireless print servers support the following security types:

- **No security.** No encryption or authentication is used. Open system. Your wireless network does not require device authentication or security to access the network. However, your network might use WEP encryption keys for data privacy.
- **WEP-Personal.** Each device on your wireless network uses a shared encryption key (a shared password value) for network access and communication. Each device on the network must use the same key. The HP Jetdirect print server supports IEEE 802.11 WEP keys for encrypted network communications.
- **WEP-Enterprise.** The network uses WEP with EAP/802.1x authentication. This type of security utilizes a central authentication server, such as RADIUS, to authenticate users on the network. The HP Jetdirect print server supports these server-based authentication protocols: LEAP, PEAP, and EAP-TLS.
- **WPA/WPA2-Personal.** Your network uses Wi-Fi Protected Access (WPA) with a pre-shared key that is typically generated by a pass-phrase. WPA encryption is normally used for wireless communication and offers improved security.
- **WPA/WPA2-Enterprise.** Your network uses WPA with EAP/802.1x authentication. This type of security utilizes a central authentication server, such as RADIUS, to authenticate users on the network. The HP Jetdirect print server supports these server-based authentication protocols: LEAP, PEAP, and EAP-TLS.

For more information about these authentication protocols, see the *HP Jetdirect Print Servers Administrator's Guide*.

Service Set Identifiers (SSID)

An SSID is a logical name assigned to a wireless LAN. It is typically used to provide LAN access control. For example, if the SSID for a wireless network is mycompany, then each wireless device on the network must be configured with this SSID.

In infrastructure mode, the access point requires wireless devices to be configured with the appropriate SSID before network access is allowed.

Signal range

The range over which wireless devices can communicate depends on the physical environment and the orientation of the HP Jetdirect print server.

In general, while radio waves can bounce off obstacles to access print servers, it is best to have clear line-of-sight access between devices without obstacles through which the signal must pass.



NOTE: Signal range and wireless transmission performance is reduced with increasing distance between devices, and with obstacles that block or absorb signals.

Network printing terms and concepts

Client-server printing

On a client-server network, client computers send print jobs to a dedicated network server that controls the use of each installed printer. The HP Jetdirect print server receives print jobs over the network under the network server's control, or can automatically monitor print queues and de-spool print jobs from the network server.

Peer-to-peer (direct mode) printing

On a peer-to-peer network, dedicated network servers are not used. Instead, an HP Jetdirect-connected network printer is installed on each client computer that sends print jobs directly to the printer.

Network protocols

For network computers and printers to communicate on a network, they must use a common language, or network protocol. The HP Jetdirect print server can support different network protocols simultaneously. For a list of supported protocols, see [Supported network protocols on page 18](#).

TCP/IP is the most commonly used protocol in network environments.

Network address

Each device on a network must be identified by a unique network address for the specific network protocol used. On an IP network, network addresses are configured and stored on each HP Jetdirect print server during installation, and are listed on the HP Jetdirect configuration page for the print server.

Hardware address

Each device on a network contains a unique LAN hardware (or station) address that is assigned by the manufacturer of the device. Because HP Jetdirect print servers connect printers to a network, each print server contains a LAN hardware address assigned by Hewlett-Packard.

The address consists of 12 hexadecimal digits (0 through F). The first 6 digits uniquely identify the manufacturer, and the second 6 digits uniquely identify the device.

The LAN hardware address is important because it might be needed to identify the printer during installation. It is listed on the HP Jetdirect configuration page for each print server.

B Solution summary

- [HP support software](#)
- [Embedded services](#)
- [Supported network protocols](#)

HP support software

Table B-1 HP support software

- | |
|--|
| <ul style="list-style-type: none">• HP Web Jetadmin software (TCP/IP networks)• HP Embedded Web Server• HP network printing setup software<ul style="list-style-type: none">◦ HP LaserJet Utility for Macintosh (Mac OS) |
|--|

Embedded services

Key services embedded in the HP Jetdirect 2700w Print Server are listed below. For the latest features and services, visit www.hp.com/go/jetdirect.

Table B-2 Embedded services

- | |
|--|
| <ul style="list-style-type: none">• Configuration and management<ul style="list-style-type: none">◦ BootP/DHCP (IPv4 only)◦ DHCPv6◦ TFTP (IPv4 only)◦ Web Proxy (Automatic/Manual cURL)◦ LLNMR◦ Telnet (IPv4 only)◦ SNMP (v1, v2c, v3) agents◦ Bonjour (for Mac OS X) |
|--|

Table B-2 Embedded services

-
- FTP (File Transfer Protocol)
 - WS Discovery (Microsoft Web Services)
 - HP Embedded Web Server, HTTP (TCP port 80)
 - HP Embedded Web Server, HTTPS (TCP port 443)
 - IP Security (IPsec)
 - Fleet configuration
 - Printing
 - Raw IP printing (HP-proprietary TCP ports 9100, 9101, 9102)
 - LPD printing (TCP port 515)
 - IPP printing (TCP port 631)
 - FTP printing (TCP ports 20, 21)
 - WS Print (Microsoft Web Services)
 - Security
 - SNMP v3
 - SSL/TLS
 - 802.1X authentication: WEP, WPA, WPA2, LEAP, PEAP, and EAP-TLS
 - Kerberos
 - Access Control List
 - Firewall
 - Supported Web browsers (for HP Embedded Web Server)
 - Microsoft Internet Explorer 6.x and higher
 - Google Chrome
 - Mozilla Firefox 2.x and higher
 - Opera 9.0 and higher
 - Safari 2.0 and higher
-

Supported network protocols

The supported network protocols, and popular network printing environments that use those protocols, are listed below.

Table B-3 Supported network protocols

Supported network protocols	Typical network printing environments ¹
TCP/IPv4	<p>(Direct Mode printing) Microsoft Windows Server 2003 (32- and 64-bit), Windows Server 2008 (32- and 64-bit), Windows 7 (32- and 64-bit), Windows Vista (32- and 64-bit), and Windows XP (32- and 64-bit)</p> <p>Microsoft Terminal Server and Citrix MetaFrame environments²</p> <p>Mac OS 10.4 and later</p> <p>UNIX and Linux, including: Hewlett-Packard HP-UX 10.2, 11.x, 11.i, Sun Microsystems Solaris 2.5 and later (SPARCsystems only), IBM AIX 3.2.5 and later², HP MPE-iX², RedHat Linux 7.x and later², SuSE Linux 8.x and later²</p> <p>LPR/LPD (Line Printer Daemon, RFC 1179-compliant) systems²</p> <p>IPP (Internet Printing Protocol)</p> <p>FTP (File Transfer Protocol) printing</p>
TCP/IPv6	<p>Microsoft Windows Server 2003 (32- and 64-bit), Windows Server 2008 (32- and 64-bit), Windows 7 (32- and 64-bit), Windows Vista (32- and 64-bit), and Windows XP (32- and 64-bit), Direct Mode port 9100 printing. (Requires HP IPv6/IPv4 port monitor software running on the system.)</p> <p>Mac OS 10.4 and later</p> <p>LPR/LPD (Line Printer Daemon, RFC 1179-compliant) systems with IPv6 client support.</p> <p>IPP (Internet Printing Protocol) systems with IPv6 client support.</p> <p>FTP (File Transfer Protocol) printing</p>

¹ Refer to the current HP Jetdirect product data sheets for additional network systems and versions. For operation with other network environments, consult your system vendor or authorized HP dealer.

² Contact your network system vendor for software, documentation, and support.

C Specifications

- [Network \(for print server setup\)](#)
- [Electrical](#)
- [Environmental](#)
- [Electromagnetic](#)
- [Acoustic](#)
- [Radio characteristics](#)
- [Safety](#)
- [Wireless telecommunications](#)

Network (for print server setup)

HP Jetdirect	USB 2.0 compliant connector.
--------------	------------------------------

Electrical

Electrical power is supplied by the printer/MFP's rear USB host port.

500ma maximum @ 5.0 V nominal DC

Environmental

	Operating	Non-Operating
Temperature	0° to 55° C (32° to 131° F)	-40° to 70° C (-40° to 158° F)

	Operating	Non-Operating
Relative humidity (non-condensing)	15% to 95% at 40° C (104° F)	15% to 95% at 65° C (149° F)
Maximum altitude	4.6 km (15,000 ft)	4.6 km (15,000 ft)

Electromagnetic

- FCC Title 47 CFR Part 15 Class B for Ethernet (USA)
- ICES-003 Class B (Canada)
- VCCI Class B (Japan)
- AS/NZS3548 Class B (Australia, New Zealand)
- EN55022/CISPR-22 Class B (EU, international)
- CNS 13438 Class B (Taiwan)
- Korean EMI Law, No. 1996-98 Class B (Korea)

Acoustic

Not applicable.

Radio characteristics

HP subassemblies

The HP Jetdirect 2700w Print Server is designed for operation for radio frequencies in the license-free 2.4 GHz band. However, due to local radio regulations and restrictions, the radio characteristics of your particular HP Jetdirect 2700w Print Server can vary according to the location in which the product is used.

Channel frequencies

The channel frequencies are listed below:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462

Channel	Frequency (MHz)	Channel	Frequency (MHz)
5	2432	12	2467
6	2437	13	2472
7	2442		

Safety

Product complies with:

- IEC 60950-1:2005/ EN 60950-1:2006+A11:2009

Wireless telecommunications

This product complies with:

- EN 300 328
- EN 301 489-17
- FCC 15.247

D Regulatory statements

- [FCC statement](#)
- [Regulatory Model Identification Number](#)
- [Canada](#)
- [Regulatory wireless statements and required markings](#)
- [Environmental product stewardship program](#)

FCC statement

The United States Federal Communications Commission (in 47 CFR 15.105) has specified that the following notice be brought to the attention of users of this product.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient the receiving antenna.
2. Increase the separation between the equipment and the receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

For further information, contact:

Manager of Corporate Product Regulations Hewlett-Packard Company, 3000 Hanover Street, Palo Alto, California 94304

(650) 857-1501

Modifications (part 15.21)

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by HP may void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Regulatory Model Identification Number

For regulatory identification purposes, this product is assigned a Regulatory Model Number. The Regulatory Model Number for your product is RSVLD-1001. The regulatory number should not be confused with the HP marketing model number (for example, HP Jetdirect) or the HP product number (J8026A).

Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Regulatory wireless statements and required markings

- [Exposure to radio frequency radiation](#)
- [Notice to users in Argentina](#)
- [Notice to users in Brazil](#)
- [Notice to users in Canada](#)
- [Notice to users in China](#)
- [European Union regulatory notice](#)
- [Notice to users in Indonesia](#)
- [Notice to users in Korea](#)
- [Notice to users in Mexico](#)
- [Notice to users in Singapore](#)
- [Notice to users in South Africa](#)
- [Notice to users in the Ukraine](#)

Exposure to radio frequency radiation

CAUTION: The radiated output power of this device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized. This product and any attached external antenna, if supported, shall be placed in such a manner to minimize the potential for human contact during normal operation. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Notice to users in Argentina

CNC:C-7248

Notice to users in Brazil

Aviso aos usuários no Brasil Este equipamento opera em caráter secundário, isto é, não tem direito à proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.



Notice to users in Canada

Notice to users in Canada/Note à l'attention des utilisateurs canadiens

For Indoor Use. This digital apparatus does not exceed the Class B limits for radio noise emissions from the digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. The internal wireless radio complies with RSS 210, RSS GEN, and RSS-102 of Industry Canada.

This Class B digital apparatus complies with Canadian ICES -003.

Utiliser à l'intérieur. Le présent appareil numérique n'émet pas de bruit radioélectrique dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada. Le composant RF interne est conforme à la norme RSS-210, RSS GEN, et RSS-102 d'Industrie Canada.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Notice to users in China

CMII ID: 2009DJ0895

European Union regulatory notice

This product complies with the following EU Directives:

- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC

If this product has telecommunications functionality, it also complies with the essential requirements of:

- R&TTE Directive 1999/5/EC

Compliance with these directives implies conformity to harmonized European standards (European Norms) that are listed in the EU Declaration of Conformity issued by Hewlett-Packard for this product or product family. This compliance is indicated by the following conformity marking placed on the product.

The telecommunications functionality of this product may be used in the following EU and EFTA countries/regions:

Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, and United Kingdom.

Notice for France and Italy for use of 2.4 GHz wireless communication:

France:

L'utilisation de cet équipement (2.4GHz Wireless LAN) est soumise à certaines restrictions: Cet équipement peut être utilisé à l'intérieur d'un bâtiment en utilisant toutes les fréquences de 2400 à 2483.5MHz (Chaine 1-13). Pour une utilisation en environnement extérieur, vous devez utiliser les fréquences comprises entre 2454-2483.5MHz (Chaine 10-13). Pour les dernières restrictions, voir <http://www.art-telecom.fr>.

For 2.4 GHz Wireless LAN operation of this product certain restrictions apply: This product may be used indoor for the entire 2400-2483.5 MHz frequency band (channels 1-13). For outdoor use, only 2454-2483.5 MHz frequency band (channels 10-13) may be used. For the latest requirements, see <http://www.art-telecom.fr>.

Italy:

È necessaria una concessione ministeriale anche per l'uso del prodotto. Verifici per favore con il proprio distributore o direttamente presso la Direzione Generale Pianificazione e Gestione Frequenze.

License required for use. Verify with your dealer or directly with the General Direction for Frequency Planning and Management (Direzione Generale Pianificazione e Gestione Frequenze).

Contact for European regulatory topics:

Hewlett-Packard GmbH, Department HQ-TRE / Standards Europe, Herrenberger Strasse 140, D-71034 Böblingen, Germany.

Notice to users in Indonesia

10946/POSTAL/2009 1835

Notice to users in Korea



Notice to users in Mexico

No. de homologación: SCT: RCPHPSD09-0368

Notice to users in Singapore

Complies with IDA Standards DB100427

Notice to users in South Africa



Notice to users in the Ukraine



Environmental product stewardship program

Hewlett-Packard is committed to providing quality products in an environmentally sound manner. Design for recycling has been incorporated into this product. The number of materials has been kept to a minimum while ensuring proper functionality and reliability. Dissimilar materials have been designed to separate easily. Fasteners and other connections are easy to locate, access, and remove using common tools. High priority parts have been designed to access quickly for efficient disassembly and repair.

For more information, visit HP's Commitment to the Environment Web site at: <http://www.hp.com/hpinfo/globalcitizenship/environment/index.html>

This section contains the following topics:

Disposal of waste equipment by users in private households in the European Union




English
Français
Deutsch
Italiano
Español
Portuguese
Česky
Dansk
Nederlands

Disposal of Waste Equipment by Users in Private Households in the European Union

This symbol on this product or its packaging indicates that it is not to be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Élimination des équipements usagés par les utilisateurs dans les foyers privés au sein de l'Union européenne

Le pictogramme de ce symbole sur le produit ou sur son emballage indique que vous ne pouvez pas vous débarrasser de ce produit de la même façon que les déchets courants. Au contraire, vous êtes responsable de l'élimination de vos équipements usagés et il est offert, vous êtes tenu de les remettre à un point de collecte agréé pour le recyclage des équipements électroniques et électromécaniques. Le fait d'éliminer et de recycler vos équipements usagés permettra de préserver les ressources naturelles et de s'assurer que ces équipements sont recyclés dans le respect de la santé humaine et de l'environnement. Pour plus d'informations sur les lieux de collecte des équipements usagés, veuillez contacter votre mairie, votre service de traitement des déchets ménagers ou le magasin où vous avez acheté le produit.

Entsorgung von Elektrogeräten durch Benutzer in privaten Haushalten in der EU

Ein Symbol auf dem Produkt oder dessen Verpackung gibt an, dass das Produkt nicht zusammen mit dem Restmüll entsorgt werden darf. Es obliegt daher Ihrer Verantwortung, das Gerät an einer entsprechenden Stelle für die Entsorgung oder Wiederverwertung von Elektrogeräten abzugeben (z.B. am Recyclinghof). Die separate Sammlung und die Recycling Ihrer alten Elektrogeräte zum Schutz der Umwelt und zum Schutz der Umwelt ist ein gesetzliches Ziel, das sich auf eine Art und Weise verwirklicht, die keine Gefährdung für die Gesundheit des Menschen und der Umwelt darstellt. Weitere Informationen darüber, wo Sie Ihre Elektrogeräte zum Recycling abgeben können, erhalten Sie bei den örtlichen Behörden, Müllabfuhr oder auch, wo Sie das Gerät erworben haben.

Smaltimento delle apparecchiature elettroniche ed elettromeccaniche a fine vita nell'Unione Europea

Questo simbolo, presente sull'apparecchiatura o sulla confezione, indica che il prodotto alla fine della propria vita utile deve essere smaltito separatamente dagli altri rifiuti domestici. L'utente dovrà quindi portare l'apparecchiatura giunta a fine vita negli appositi centri di raccolta differenziata per rifiuti elettrici ed elettronici. L'adozione di questa differenziazione e il successivo riciclo contribuiscono a ridurre i danni all'ambiente e a proteggere la salute umana e l'ambiente. Per ulteriori informazioni sui punti di raccolta delle apparecchiature a fine vita, consultare il proprio comune di residenza, il servizio di smaltimento dei rifiuti locali o il negozio presso il quale il prodotto è stato acquistato.

Eliminación de residuos de aparatos eléctricos y electrónicos por parte de usuarios domésticos en la Unión Europea

Este símbolo en el producto o en el empaque indica que no se puede desechar el producto junto con los residuos domésticos. Por el contrario, se debe eliminar este tipo de residuos, en responsabilidad del usuario, entregando en un punto de recolección designado de residuos de aparatos electrónicos y eléctricos. El reciclaje de los residuos de aparatos eléctricos y electrónicos en un momento de la eliminación ayuda a preservar recursos naturales y a garantizar que el reciclaje proteja la salud y el medio ambiente. Si desea información adicional sobre los lugares donde puede dejar estos residuos para su reciclaje, póngase en contacto con las autoridades locales de su ciudad, con el servicio de gestión de residuos domésticos o con la tienda donde se compró el producto.

Recycling van afgedragen apparaten door gebruikers in particuliere huishoudens in de Europese Unie

Dit symbool op het product of op de verpakking geeft aan dat dit product niet mag worden afgevoerd met het huishoudelijke afval. Het is uw verantwoordelijkheid om het afgedragen apparaat af te geven op een aangewezen inzamelpunt voor de verwerking van afgedragen elektronische en elektromechanische apparaten. De gescheiden inzameling en verwerking van het afgedragen apparaat draagt bij tot het behoud van natuurlijke hulpbronnen en tot het beschermen van de gezondheid van de mens en het milieu. Voor meer informatie over waar u uw afgedragen apparaat af kunt geven, kunt u contact opnemen met het gemeentelijk bureau voor afval, de recyclingdienst of de winkel waar u het product heeft aangekocht.

Recycling van afgedragen apparaten door gebruikers in particuliere huishoudens in de Europese Unie

Dit symbool op het product of op de verpakking geeft aan dat dit product niet mag worden afgevoerd met het huishoudelijke afval. Het is uw verantwoordelijkheid om het afgedragen apparaat af te geven op een aangewezen inzamelpunt voor de verwerking van afgedragen elektronische en elektromechanische apparaten. De gescheiden inzameling en verwerking van het afgedragen apparaat draagt bij tot het behoud van natuurlijke hulpbronnen en tot het beschermen van de gezondheid van de mens en het milieu. Voor meer informatie over waar u uw afgedragen apparaat af kunt geven, kunt u contact opnemen met het gemeentelijk bureau voor afval, de recyclingdienst of de winkel waar u het product heeft aangekocht.

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Printed on at least 50% total recycled fiber with at least 10% post-consumer paper

Imprimé sur un papier composé d'au moins 50 % de fibres recyclées et 10 % de papier post-consommation

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Imprimé aux États-Unis
Stampato negli Stati Uniti
美国印刷



有毒 有害物质表
根据中国电子信息产品污染控制管理办法的要求制定

表 1 内部增强型 IO (IOI) 产品

部件名称	有毒有害物质和元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯	多溴二苯醚 (PBDE)
塑料或金属	0	0	0	0	0	0
电子元件	X	0	0	0	0	0
0: 表示此部件使用的所有均匀材料所含的此有毒或有害物质均低于 SJ/T11363-2006 的限制要求。 X: 表示在此部件使用的所有均匀材料中至少有一种所含的此有毒或有害物质高于 SJ/T11363-2006 的限制要求。						
产品:	HP J8025A					

表 2 标准增强型

部件名称	有毒有害物质和元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯	多溴二苯醚 (PBDE)
塑料或金属	0	0	0	0	0	0
电子元件	X	0	0	0	0	0
电路板	0	0	0	0	0	0
电源适配器	X	0	0	0	0	0
0: 表示此部件使用的所有均匀材料所含的此有毒或有害物质均低于 SJ/T11363-2006 的限制要求。 X: 表示在此部件使用的所有均匀材料中至少有一种所含的此有毒或有害物质高于 SJ/T11363-2006 的限制要求。						
产品:	HP J8025A					



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E Service and support

- [Hewlett-Packard limited warranty statement](#)
- [Local warranty statements](#)
- [Customer support](#)
- [Product accessibility](#)

Hewlett-Packard limited warranty statement

HP product	Duration of limited warranty
HP Jetdirect 2700w Print Server	1 Year
HP Jetdirect software.	90 Days

HP warrants to you, the end-user customer, that HP hardware and accessories will be free from defects in materials and workmanship after the date of purchase, for the period specified above. If HP receives notice of such defects during the warranty period, HP will, at its option, either repair or replace products which prove to be defective. Replacement products may be either new or equivalent in performance to new.

HP warrants to you that HP software will not fail to execute its programming instructions after the date of purchase, for the period specified above, due to defects in material and workmanship when properly installed and used. If HP receives notice of such defects during the warranty period, HP will replace software which does not execute its programming instructions due to such defects.

HP does not warrant that the operation of HP products will be uninterrupted or error free. If HP is unable, within a reasonable time, to repair or replace any product to a condition as warranted, you will be entitled to a refund of the purchase price upon prompt return of the product.

HP products may contain remanufactured parts equivalent to new in performance or may have been subject to incidental use.

Warranty does not apply to defects resulting from (a) improper or inadequate maintenance or calibration, (b) software, interfacing, parts or supplies not supplied by HP, (c) unauthorized modification or misuse, (d) operation outside of the published environmental specifications for the product, or (e) improper site preparation or maintenance.

TO THE EXTENT ALLOWED BY LOCAL LAW, THE ABOVE WARRANTIES ARE EXCLUSIVE AND NO OTHER WARRANTY OR CONDITION, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED AND HP SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE. Some countries/regions, states or provinces do not allow limitations on the duration of an implied warranty, so the above limitation or exclusion might not apply to you. This warranty gives you specific legal rights and you might also have other rights that vary from country/region to country/region, state to state, or province to province.

HP's limited warranty is valid in any country/region or locality where HP has a support presence for this product and where HP has marketed this product. The level of warranty service you receive may vary according to local standards. HP will not alter form, fit or function of the product to make it operate in a country/region for which it was never intended to function for legal or regulatory reasons.

TO THE EXTENT ALLOWED BY LOCAL LAW, THE REMEDIES IN THIS WARRANTY STATEMENT ARE YOUR SOLE AND EXCLUSIVE REMEDIES. EXCEPT AS INDICATED ABOVE, IN NO EVENT WILL HP OR ITS SUPPLIERS BE LIABLE FOR LOSS OF DATA OR FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some countries/regions, states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THE WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

Your authorized dealer

If you encounter difficulty, begin by contacting the person who sold you the HP Jetdirect 2700w Print Server to you. Your HP authorized dealer will be familiar with your requirements and can provide assistance.

During the warranty period, HP will replace the unit at no charge provided the defective unit is returned. You may return the unit to your HP authorized dealer or your local HP sales and service office representative. *Be sure to include a copy of your purchase receipt.*

For warranty service on HP Jetdirect products, call HP support. When calling, please have the following information ready:

- HP Jetdirect product you are calling about.
- Model number of the product.
- Serial number of the product.
- Complete description of the problem.
- Proof of purchase of your product.
- Your shipping address.

The HP support representative will help you with troubleshooting, and advise you on warranty service.

Service billing (out of warranty)

When ordering a replacement unit for out-of-warranty service, you may be charged a repair cost. See your HP authorized dealer or your local HP sales and service office representative. Or, you can call HP at (800) 227-8164 (USA only).

Service outside the USA

Customers outside the USA should contact their HP authorized dealer or HP sales and service office to obtain information on prices, exchange unit availability and instructions.

Local warranty statements

Australia and New Zealand

For consumer transactions in Australia and New Zealand: The warranty terms contained herein except to the extent lawfully permitted, do not exclude, restrict, or modify and are in addition to the mandatory statutory rights applicable to the sale of this product to you.

Customer support

For warranty information, see [Hewlett-Packard limited warranty statement on page 31](#).

For advanced configuration topics and other information, see the *HP Jetdirect Print Servers Administrator's Guide* for the print server.

HP support online

Click your way to a quick solution! The HP Web site at www.hp.com/support/net_printing is a great place to start for information about your HP Jetdirect 2700w Print Server – 24 hours a day, 7 days a week.

For the latest HP Jetdirect installation software and documentation, visit www.hp.com/go/inpw_sw.

HP support by phone

Highly trained technicians are ready to take your call.

For toll-free phone support in the USA and Canada, call HP support at: 1-800-HPINVENT (1-800-474-6836)

For the most recent HP support telephone numbers and available services worldwide, visit www.hp.com/support.



NOTE: The phone numbers listed may not be toll-free. Telephone fees are the responsibility of the caller. Rates may vary. Contact your local telephone company for current rates.

Product accessibility

For information on our commitment to accessibility of HP Jetdirect print server products:

- Visit the HP Web site at www.hp.com/accessibility.
- Send an email message to: **accessibility@hp.com**.

