

WIC MIS Compatible Print Servers

Print Servers

In general print servers are devices that connect printers to client computers over a network. It accepts print jobs from computers and sends the jobs to the appropriate printers. A print server may be networked with one or more printers. Print servers have a RJ45 port for 10/100/1000 connection on the back for Ethernet LAN connection. They also have a Parallel connector and some may have a USB port that will allow the print server to communicate with the printer. Newer print servers have WIFI capabilities and some printers have a built-in print server. Most, if not all print servers should have printer management software embedded into the print server that is accessible through a web browser. This allows configuration of the print server, firmware updates, and password protection for security. There are a vast variety of print servers in use from Parallel, USB, LAN, WIFI, and built-in; however, below are a list of print servers currently used for WIC MIS Food Instrument printers starting with the most commonly used to the least commonly used throughout local WIC agencies.

HP Jetdirect 170x



HP Jetdirect 170x is an external print server with single high-speed, bi-directional parallel port that connects your device. It also has a RJ-45 network port 10Base-T for connecting to a network.

Physical Specification

Width: 7.09 in, Height: 1.3 in, Depth: 4.53 in, Weight: 0.49 lb

Connections

RJ-45 10Base-T, 25-pin female parallel port

Recommended Cable

2.0 meter Centronics parallel cable (36pin male to DB25 male)

3.0 meter Centronics parallel cable (36pin male to DB25 male)

Supported Network Operating System (OS/Protocol)

Novell NetWare (3.11, 3.12, 3.2, 4.x, 5) IPX/SPX, (5.0) TCP/IP

Microsoft Windows (95, 98, ME, 2000, XP, NT 3.51, NT 4.0) IPX/SPX, TCP/IP, (NT 3.51, 4.0) DCL/LLC

Artisoft LANtastic* Powersuite (7.0) DCL/LLC

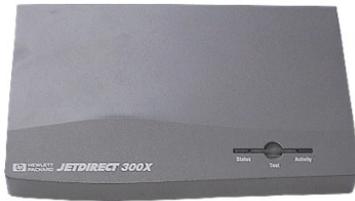
Power Requirements

Input Voltage 13Vdc, Input Current 140mA @ 13V, Frequency Range DC, Power consumption 1.2W

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HP Jetdirect 300X

Supports Embedded Web Server, does not have flash memory cannot update firmware.



The Jetdirect 300x is similar to the 170x but it uses a more broad range of networking system and protocol. It also has a RJ-45 port but with Fast Ethernet capability allowing transfers up to 100Mbps. There is also a switch on the back allowing user to change from 10Base-T to 100Base-TX, half-duplex to full-duplex.



Physical Specification

Width: 7 in, Height: 1.2 in, Depth: 4.4 in, Weight: 0.53 lb

Connections

RJ-45 10Base-T, 100Base-TX, 25-pin female parallel port

Recommended Cable

2.0 meter Centronics parallel cable (36pin male to DB25 male)

3.0 meter Centronics parallel cable (36pin male to DB25 male)

Supported Operating System

Microsoft Windows (7, Vista, XP, 2000), Server 2003, Windows Terminal services, Mac OSX (10.2 - 10.4 or higher), Novell NetWare 5.1 or higher, Linux/Unix (Red Hat7.x or higher), (SuSE 8.x or higher), (HP-UX 10.20, 11.x, 11.i), (Solaris 2.5 or higher), (AIX 3.2.5 or higher), MPE-iX, Citrix MetaFrame.

Supported Protocols

TCP/IP, IPX/SPX, AppleTalk, IP Direct Mode, LPD, FTP Printing, IPP, Netware NDS, Bindery, NDPS, iPrint, Telnet, SLP, IGMP, BOOTP/DHCP, WINS, SNMP, HTTP

Power Requirements

Input Voltage 13Vdc, Input Current 140mA @ 13V, Frequency Range DC, Power consumption 1.2W

The Jetdirect 300x like the 170x have LED light for status and activity. Both also support Embedded Web Server. However it is equipped with 2MB of flash memory and this allows the unit to be upgraded as new firmware are released. Security management is non-cryptograph based security – ACLs, SNMPv1/v2c.

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HP Jet Direct en1700 USB External Print Server



The Jetdirect en1700 USB External Print Server is built to deliver optimal performance with Hi-Speed USB 2.0 technology. The Embedded Web Server offers remote one-to-one network configuration and management.

Physical Specification

Width: 4 in, Height: 1.4 in, Depth: 5.2 in, Weight: 4.94 oz

Connections

USB (only)

Cabling Type

Ethernet 100Base-TX, Ethernet 10Base-T

Connector Type

RJ-45

Supported Network Protocol

AppleTalk, Bonjourm DHCP, ICMP/IP, IPX/SPX, TCP/IP, IPv4 and IPv6

Data Link Protocol

Ethernet, Fast Ethernet

Supported Operating System

Apple MacOS X 10.2, Microsoft Windows XP Home Edition, Microsoft Windows XP Professional, Microsoft Windows XP Professional x64 Edition, Red Hat Linux 7.x, SuSE Linux 8.xm Apple MacOS X 10.3, Apple MacOS X 10.4 or later, Citrix Presentation Server, Microsoft Windows 2000, Microsoft Windows Server 2003, Microsoft Windows Server 2003 x64 Edition, Microsoft Windows Vista, Microsoft Windows Vista (64-bit versions)

Remote Management Protocol

HTTP, HTTPS, SNMP 1, SNMP 2c, SNMP 3

WIC MIS Compatible Print Servers

Lexmark MarkNet N7002e



The MarkNet N7002e print server offers network printing support for laser, inkjet, and dot-matrix products. Offers SSL*protocols for secure connections also secure printing over the internet with IIP 1.1 and supports IPv6 TCP/IP for next gen networks.

Physical Specification

Width: 6.16 in, Height: 1.78 in, Depth: 5.43 in, Weight: 0.8 lb

Connections

RJ-45 10/100BaseTX, 36-pin Centronics parallel port

Recommended Cable

36-pin Centronics parallel cable, does not specify cable length
Ethernet cable category 3, 4, 5, 5e, 6

Supported Network Protocol

TCP/IP IPv4 & IPv6, IPX/SPX, AppleTalk

Supported Operating System

Microsoft Windows (2000, NT 4.0, ME, XP, Server 2003, 98 2nd Ed, Terminal Services),
Novell (NetWare 4.2, 5.x, 6.x and with iPrint or NDPS, NDS), (NetWare 3.2, 4.2 bindery),
Open Enterprise Server for NetWare with NDS, iPrint or NDPS,
Linux (Red Flag 4.0, 5.0), (Linpus 9.2, 9.3), (Red Hat 3.0, 4.0, 5.0), (SUSE Ent Server 8.0, 9.0, 10, 11), (SUSE PRO 9.1, 9.2, 9.3), (Debian GNU 3.1, 4.0), (Linspire 5.0),
Unix (Sun Solaris SPARC 8, 9, 10), (HP-UX 11.0, 11.1), (IBM AIX 5.1, 5.2, 5.3),
Apple Mac (OSX, 9.2)

Network Printing Methods

LPR/LPD, Direct IP (Port 9100), NDS Queue-based Printing, Enhanced IP (Port 9400),
FTP, TFTP, IPP 1.1

Network Security

SSL*Enabled Embedded Web Server (HTTPS), SNMPv3, TCP/IP port access control,
802.1x Authentication: MD5, MSCHAPv2, LEAP, PEAP, TLS, TTLS, IPSec

Specified Operating Environment

Temperature: 16 to 32C (60 to 90F), Altitude: 0-2500 Meters (8,200 Feet), Humidity: 8 to 80% Relative Humidity for Temperatures less than 25.5°C (78°F)

WIC MIS Compatible Print Servers

Other Print Servers

This group of other print servers includes a vast variety and is the least amount used by WIC Local Agencies. These print servers vary from built-in, to proprietary, or unknown print servers. Others make up for about 15% of the print servers. From this group the print servers that do stand out and provide a large proportion of this batch is the Jetdirect 500x. The 500x print server is very similar to the 170x and the 300x. What sets it aside from those two is that it has three parallel ports and can enable three printers to hook up to it.

