

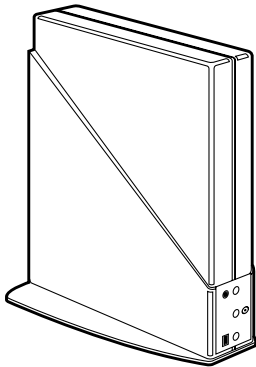
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Black Box Corporation.

BLACK BOX[®]

NETWORK SERVICES

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WIRELESS PRINT SERVER



A cost-effective, flexible, and secure way to print in a wireless networking environment.

Key Features

- ▶ **Has a 25-pin female parallel port and a USB port for attaching two separate printers.**
- ▶ **Easy to integrate into an existing network.**
- ▶ **Multiprotocol and compatible with a number of operating systems.**
- ▶ **Locate it up to 160 metres from the source of the print job.**
- ▶ **Easy to install, configure, and administer.**
- ▶ **Print job monitoring and alert tools.**
- ▶ **Transmits data up to 11 Mbps.**
- ▶ **WEP key and SSL/TLS encryption for secure transmission.**

Want to share a network printing device without having to install a network cable or situate it near an available network connection? The BLACK BOX[®] Wireless Print Server gives you the flexibility to do just that. With it, you can wirelessly connect printers, digital copiers, plotters, or MFPs to either a wireless or wired Ethernet LAN.

It's the ideal printer connectivity solution for any environment where putting in a new cable would be too expensive or problematic or, because of building restrictions, next to impossible. On the move a lot? The Wireless Print Server enables your laptop and notebook users to communicate with a printer without a cable. The print server communicates with PCMCIA wireless networking cards and WiFi compatible devices.

Because the print server has a Centronics[®] parallel port and a USB port, two printers can be supported at the same time. The only cable required is that between the Wireless Print Server and the printers themselves. Simply attach your printers to the server, and position it within the specified

wireless range for it to begin receiving print data signals.

The print server has a maximum receiving range of 160 metres (524.9 ft.) in open-space applications and 50 metres (164 ft.) in a typical office-building environment. And don't think you'll have to trade speed for flexibility. The Wireless Print Server delivers fast print data output via the wireless connection: 11 Mbps (high), 5.5 Mbps (medium), 2 Mbps (standard), and 1 Mbps (standard low).

Interoperable with all WiFi certified devices, the server uses 802.11b (or WLAN) technology that's compatible with Ethernet cabling standards, so you can integrate it seamlessly into your existing network. In fact, it handles most of today's widely used protocols and operating systems, including TCP/IP and IPX communication protocols, as well as Windows[®], Mac[®], UNIX[®], Novell NetWare[®], Linux, and other OSs.

You can set the Wireless Print Server to operate in Ad-Hoc (peer-to-peer) mode, which enables wireless devices to communicate

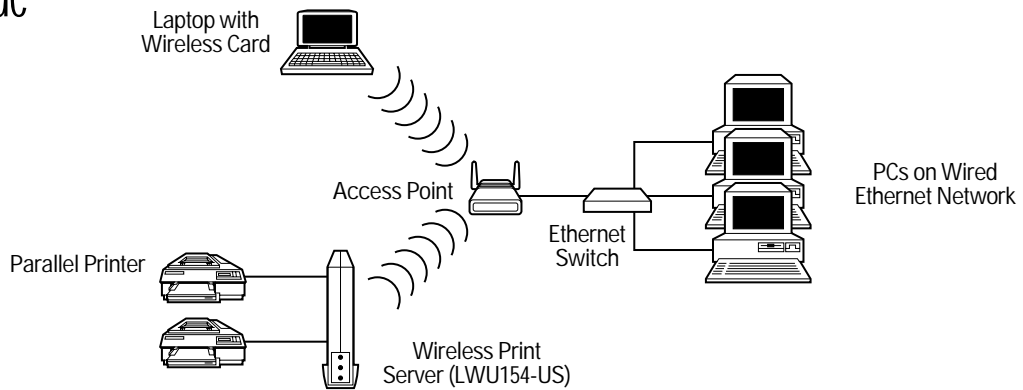
directly with the print server, or Infrastructure mode, in which all wireless communications go through a wireless access point before going to the print server.

Secure printer communications

The Wireless Print Server uses WEP with a key of 64 or 128 bits. This keeps others from eavesdropping on your WLAN communications. (Similar products available from other manufacturers don't always offer this encryption feature.) You can even configure digital certificates to encrypt data in TCP/IP networks and to authenticate communication partners.

For added security, the print server has functions to prevent unauthorised access to its settings and to prevent printing by those not authorised to print. In a TCP/IP network, for instance, you can specify the IP address or the host name of any computer or workstation authorised to send print data to the server. The print server will then only accept print jobs coming from the specified IP addresses (up to eight IP senders can be specified).

Infrastructure Mode



Easy to set up and monitor

For easy setup, the print server features three wizards: The IP Wizard for configuring TCP/IP parameters; the NetWare Wizard for installing the device in NDS and Bindery networks; and the WLAN Wizard for setting up TCP/IP and WLAN parameters and the encryption functions.

The Wireless Print Server offers easy monitoring of the printer connection(s). At any time, you can access call device and status information by simply logging on to its Web page-based GUI with a standard browser (Internet Explorer 4.x or later or Netscape 3.x. or higher). You can also access Wireless Print Server parameters off-line in Windows, Mac, or Linux by installing the Print Server-NetTool CD that ships with the server.

Through the Connection Status screen, for instance, you can quickly determine whether the server is operating in Ad-Hoc or Infrastructure mode and, if operating in the latter mode, whether an access point can be reached by the WLAN device.

NOTE: For Infrastructure mode, you'll need a wireless network that communicates via an access point. The LWU154 does not include an access point device.

The GUI also includes a Printer Port page for details about the networked printers used with the Wireless Print Server, such as the printer's firmware and the total number of pages printed by each. For information on past print jobs, just go to the Job History page. You can also get details on Token Ring, Novell NetWare, and AppleTalk connections.

To ensure maximum printer availability, the Wireless Print Server displays printer status messages for paper jams and other glitches that can interrupt print jobs in the queue. You can even instruct the server to e-mail you or send an SNMP alert if there's a printer error or if the printer is out of paper. This way, you can keep printer downtime to a minimum.

LEDs on the print server indicate whether it's operational, when it's receiving data packets, and whether a data connection has been established. The front panel also has a handy diagnostic button that you can use to print status and diagnostic information quickly.

Specifications

Antenna Type: Integrated diversity

Approvals: CE, FCC

Bit Error Rate: <10⁻⁵

Data Rates: 11 Mbps (high), 5.5 Mbps (medium), 2 Mbps (standard), 1 Mbps (standard low); Automatic Rate Selection

Delay Spread (FER <1%):

11 Mbps: 65 ns;
5.5 Mbps: 225 ns;
2 Mbps: 400 ns;
1 Mbps: 500 ns

Distance (Maximum): Open space: 160 m (524.9 ft.)

Firmware Updates: Via flash EPROM

Frequency Band: 2.4 to 2.4835 GHz (ISM Band)

Languages Supported: English, Chinese (Traditional and Simplified), French, German, Italian, Korean, Japanese, Spanish, Portuguese

Management Tools Supported: Print Server-NetTool (included); MacTool; HP Network Printer Installer; JetAdmin; WebJetAdmin; EpsonNet Tools Direct Print; Internet Print; NDPS Gateway; Web Manager; Status Monitor 2 and 3; WinAssist; MacAssist; Web browser, FTP, SNMP; KM Net Viewer

Modulation: Direct Sequence Spread Spectrum (DSSS) with CCK, DQPSK, DBPSK

Network RF Standards: IEEE 802.11b compliant with WiFi TM compatible at 11 Mbps and 5.5 Mbps; IEEE 802.11 at 2 Mbps

Operating Systems Supported:

Windows® 95/98/Me, Windows NT® 3.51 and 4.0, Windows 2000, Windows XP; Mac® OS 7-10; Novell NetWare® 3.x, 4.x, 5.x, and 6.x, UNIX®; Linux; BSD; AS/400; System V, AIX 4.x and 3.x; SINIX Spool; BS2000

Protocols Supported: IPX/SPX, TCP/IP, WINS, BCP/TBCP, NetBIOS/SMB, IPP, DNS, SLP, boot protocols (DHCP, BOOTP, RARP, ARP), SNMP, SNTIP, SMTP, EtherTalk Phase 2, HTTP/HTML

Receiver Sensitivity:

11 Mbps: -82 dB;
5.5 Mbps: -87 dB;
2 Mbps: -91 dB;
1 Mbps: -94 dB

RF Output Power: <100 mW EIRP (ETSI); 15 dBm

RF Technology: 2.4-GHz Direct Sequence Spread Spectrum (DSSS) IEEE 802.11 HR

Spreading: 11-chip Barker Sequence

Connectors: (1) DB25 F, (1) USB Type A

Indicators: LEDs: (2) Status, (1) Link

Temperature Tolerance: 32 to 131°F (0 to 55°C)

Humidity Tolerance: Up to 95% noncondensing

Power: 100-240 VAC, 50-60 Hz external power supply

Size: 5.9"H x 4.6"W x 2.75"D (15 x 11.7 x 7 cm)

Weight: 0.9 lb. (0.4 kg)

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognise any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.

According to a survey by Data Communications magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10

to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.

Package Includes

- Wireless Print Server
- Power cord for either the U.S., Europe, or the U.K.
- Inline power supply
- Quick-installation manual
- Print Server-NetTool CD-ROM

Ordering Information

ITEM	CODE
Wireless Print Server	
U.S.	LWU154-US
Europe	LWU154-EU
U.K.	LWU154-UK