



EtherWind™ 802.11b Wireless Print Server

The TROY EtherWind™ print server is a compact device that lets 802.11b-compatible computers **wirelessly** access virtually any type of printer on any of the major network operating systems! It is therefore perfect for any application where running network cables is impractical or too expensive, or where the printer must be frequently moved. The EtherWind includes both an IEEE 1284A parallel port and an RS-232 serial port for handling up to two printers simultaneously (the serial port can also be used for connecting non-printing devices like electronic signs, numerical control equipment, medical instrumentation, etc.). Even with its wireless capabilities and powerful features and performance, the EtherWind is surprisingly affordable.

Easy to Use

TROY makes it easy to forget those messy cables. With TROY's WP-Admin, you can configure the wireless settings with an easy to use interface from either a Windows™ PC or a Macintosh® computer. You can also set the basic network settings allowing setup and printing in just a few easy steps. Because of its compatibility with Hewlett-Packard's JetAdmin™ and TROY's XAdmin™ Windows-based utilities, the TROY 802.11b wireless print server is among the easiest print servers to configure and monitor. In addition, you can manage it using a standard Internet web browser with HP's Web JetAdmin and TROY's WebXAdmin capabilities. A remote console accessible via TELNET, NetWare, DEC NCP/NCL, or the serial port is available for more sophisticated diagnostics and configuration. The EtherWind print server is also compatible with the Simple Network Management Protocol (SNMP) for compatibility with most popular network management systems.

Secure

TROY delivers the EtherWind wireless print server with strong Wired Equivalent Privacy (WEP) encoding. The user has the choice between 128-bit, 64-bit (also compatible with 40-bit), or no encoding for the wireless data transfer. The procedure offers similar protection from unauthorized access in a radio network as would be expected in a wired LAN. In particular, radio data with 40 bit encoding (WEP64) or 104 bit encoding (WEP128) are transmitted. The remaining 14 bits can be used for authentication. With WEP as well as access control lists and further Document Security functions of the TROY wireless printing systems, you can be sure your data is safe.

Compatible with Wireless Standards

The TROY EtherWind 802.11b wireless print server supports Direct Sequence Spread Spectrum (DSSS) operation with automatic selection of 1, 2, 5.5 and 11Mbps speeds depending on environmental conditions. The EtherWind is Wi-Fi™ certified to ensure

*11Mbps Multiprotocol Networking
for Parallel and Serial Printers*



*Wireless
connectivity*



Performance. Security. Quality. TROY sets the world's standards for wireless connectivity.



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compatibility with 802.11b wireless networks, including Apple's Airport® Wireless Networking.

Print from Anywhere

With the TROY EtherWind 802.11b wireless print server, users can share printers simultaneously from TCP/IP, NetWare®, Windows™ NT/2000, Windows 9x Peer-to-Peer, AppleTalk®, LAN Server™/Warp Server™, LAN Manager, DEC® LAT®/PATHWORKS®, and Banyan® VINES® capabilities. No special software is required on the host computer or file server, and the printer appears to the user as if it were directly connected to the computer. In addition, the TROY wireless print server includes PrintraNet™, TROY's innovative software that allows you to print from a Windows computer to a printer connected to a TROY print server in another city! Other PrintraNet features include direct printing of E-mail messages and an address book for simultaneously sending documents to multiple remote printers.

Exceptional Macintosh Support

Unlike many competitors, the EtherWind supports true bidirectional communications plus the ability to print binary PostScript jobs on printers that work with the HP Tagged Binary Communications Protocol. This means that you can print complex graphics jobs from your Macintosh and be assured of compatibility with Apple software like the Apple Printer Utility.

Unmatched Capabilities

The EtherWind includes capabilities for handling almost any type of printing application, many of which are not found on competing products. An especially powerful feature is the lpd-Plus virtual printer capability, which includes multiple services per port with programmable setup/reset strings, filters, and TCP port numbers. This feature allows the printer to appear on the network as multiple virtual printers, each with its own set of capabilities. For example, you could define one virtual printer for B-sized paper, another for landscape mode, and a third for duplexing. The lpd-Plus feature also includes a text-to-Postscript translation capability to allow text jobs to be printed on PostScript-only printers, and a character string substitution feature.

The EtherWind firmware is stored in flash memory, which means that it can be easily updated over the wireless network when required. Unlike many other print servers, the firmware can be upgraded through NetWare, TCP/IP, DEC MOP, Banyan VINES, or the serial port. In addition, you can download multiple TROY print servers simultaneously, thereby substantially shortening the upgrade procedure.

Who is TROY Group?

TROY Group, Inc. (NASDAQ:TROY) designs, develops and markets technology solutions for businesses and consumers in the areas of wireless and connectivity solutions and electronic payment systems. TROY's Wireless Division (formerly TROY XCD, Inc.) products include a wide range of products that enable users of intelligent devices such as PCs, cellular telephones, personal digital assistants (PDAs), printers and digital cameras to exchange information with each other over either wireless or wired networks. Its wireless products are hardware and software solutions that address Bluetooth™ and 802.11b, which are the two emerging industry standards for short-distance wireless communications within a single building.

TROY EtherWind 802.11b Print Server

Models:

- **ETHWD-S0x** EtherWind 802.11b print server with 1 parallel and 1 serial port and TCP/IP, IPX/SPX, NetBEUI, NetBIOS IP, DLC/LLC, Direct Mode IP/IPX, AppleTalk protocols (*x=1 for US, 2 for general international, 3 for Continental Europe, 4 for UK, 6 for France, and 7 for Spain*)
- **ETHWD-N0x** Same as ETHWD-S0x but with addition of DEC LAT and Banyan VINES protocols

Mechanical

- Size: 15.2 x 3.2 x 10.8 cm (6 x 1.25 x 4.25 inches)

Electrical

- DC Power: 1A@5VDC (from external adapter)
- AC Power: 115VAC (U.S.);100 to 240VAC (Other)

I/O

- IEEE P1284 bidirectional parallel port (25-pin Centronics 1284A female connector).
- RS-232 compatible serial port (DB9 male connector) with baud rates to 115.2Kbps, 7/8-bit characters, ODD/EVEN/MARK/ SPACE/NO parity, XON/XOFF, CTS/RTS, and NO flow control; 1 or 2 stop bits, and CTS, RTS, DSR, and DTR modem signals

802.11b Wireless

- Variable Data Rates: 11, 5.5, 2 and 1Mbps
- Frequency Band: 2.4GHz ISM Band
- Wired Equivalent Privacy: 128-bit, 64-bit (compatible with 40-bit), none
- Sensitivity (typ, AWGN, 8E-2 PER): -91dBm at 1Mbps, -88dBm at 2Mbps, -87dBm at 5.5Mbps, -84dBm at 11Mbps
- Range: 100m Indoor, 300m Outdoor

Protocols

- TCP/IP (lpd or raw TCP port), IPX/SPX, Direct Mode IPX/IP, AppleTalk (requires PostScript printer or driver supplied by printer manufacturer), DLC/LLC, NetBEUI, NetBIOS/IP, LAT, and Banyan VINES

Network Operating Systems

- NetWare (2.XX, 3.XX, 4.XX, 5.XX) w/NDS), Windows NT 4/2000/XP, IBM OS/2 Warp/LAN Server, TCP/IP, Windows 95/98/ME Peer-to-Peer, MacOS 7.xx, 8.xx, 9.xx; MacOS X; Windows for Workgroups, DEC LAT and Banyan VINES

Management

- TROY WP-Admin utility for easy configuration from Windows or Macintosh
- HP JetAdmin NetWare and TCP/IP Windows-based utility
- TROY XAdmin TCP/IP-NetWare-VINES Windows-based utility
- TROY Web XAdmin web-browser facility (includes English, German, French, and Dutch multilingual capability)
- HP Web JetAdmin Windows software
- Print server console accessible via serial port, TELNET or NetWare NetWare PCONSOLE, PRINTCON, PRINTDEF, NWADMIN
- Apple Printer Utility and Apple LaserWriter Utility
- DEC LATCP, NCP, NCL, TSM, DCPS
- VINES MANAGE, MUSER, MSERVICE, and Operator Console Printer Control
- Simple Network Management Protocol (SNMP) MIB I and II; IP or IPX

Other Features

- IP address configuration via serial port, arp, rarp, DHCP, BOOTP, TROY XAdmin utility, HP JetAdmin, NetWare, and DEC MOP
- Automatic detection of NetWare frame type or frame type can be forced
- On-line HELP
- Sophisticated diagnostics, including protocol trace capability and crash dump
- Test page and factory reset switch

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