LANTRONIX®

Wireless Device Server

- Enables access to remote devices while minimizing costly cabling
- Provides network mobility for untethered communication
- Industry standard 802.11b/g wireless interface
- Transparent communications - no need to develop special software
- Two DB9 DTE serial ports supporting RS-232, RS-422 or RS-485 communication
- Bulletproof wireless security with IEEE 802.11i-PSK, WPA-PSK, TKIP
- 256-bit AES— end-to-end encryption
- Ethernet or wireless communication
- Features TruPort® Com port control technology

RoHS
WEEE COMPLIANT

Wirelessly Connect, Monitor, Manage and Control Devices Over a Network or the Internet

WiBox® dual-port device servers enable you to connect equipment to 802.11b/g wireless networks via serial or Ethernet, quickly and easily. By merging wireless communications and Lantronix device server technology, WiBox simplifies connectivity to devices in applications where mobility is required or cabling is impractical.

Lantronix's innovative approach to network-enabling devices is transparent to your attached devices and software. You won't need to change the way you work, and there's no need to develop special software to take advantage of wireless networking capabilities. The WiBox simply becomes a conduit between you and your device over your network or the Internet.

The flexibility and power of WiBox offers a huge cost-saving potential for a variety of commercial applications. Serial RS-232/422/485 flexibility, Advanced security, robust data handling capabilities and high serial speeds are all built in. Using a method called serial tunneling, the WiBox encapsulates serial data into packets and transports it over 802.11b/g wireless networks. By connecting two WiBox units via a network, virtual serial connections can be extended across your facility or around the world.

The Com Port Redirector™ software included with your WiBox simplifies your integration process by extending the functionality of your COM port-based Windows® applications. With virtual COM ports mapped to remote device servers on the network, you can replace direct serial connections.

To enable access to a local network or the Internet, the WiBox integrates a fully developed TCP/IP network stack and OS. It even includes a built-in web server, which can be used for configuration or to display operating and troubleshooting information on the attached links to online support.

The DeviceInstaller™ configuration software that's included simplifies installation and setup. WiBox can be set up locally through its serial port, or remotely over a network using DeviceInstaller Telnet or a web browser. Flash memory provides maintenance-free, non-volatile storage of web pages, and allows future system software upgrades.

In modem emulation mode, WiBox is used to replace dial-up modems. The unit accepts modem AT commands on the serial port, then establishes a network connection to the end device, leveraging wireless mobility and bandwidth to eliminate dedicated modems and phone lines.

If you're looking for a transparent, cost-effective and scalable means to network-enable your serial devices, look no further than WiBox from Lantronix.

Total Com Port Control with TruPort Technology

Built into the included Com Port Redirector software, TruPort® technology enables Windows-based applications to access and control serial ports on the WiBox as if they were actually local PC serial ports. The application can monitor and set hardware pins on the WiBox serial ports as well as access serial buffers for total Com port control. This allows existing applications to seamlessly transition from controlling local devices to true remote monitoring and control of devices around the world.

Features

Serial Interface – 2 DB9 DTE serial ports
- **Serial Port 1:** RS-232
- **Serial Port 2:** RS-232/422/485 software selectable
- **Data Rates:** 300 to 921,600 bps
- **Characters:** 7 or 8 data bits
- **Parity:** Odd, even, none
- **Stop Bits:** 1 or 2
- **Control Signals:** RTS, CTS, DSR, DTR, DCD
- **Flow Control:** XON/XOFF, RTS/CTS
- **ESD Protection:** 4kv direct per port

Security
- IEEE 802.11i - PSK with AES-CCMP Encryption
- WPA - PSK
- TKIP Encryption
- 128-256 Bit Rijndael AES Encryption, NIST AES FIPS-197 CERT#120
- 64/128-bit WEP

Network Interface
- **WBX2100E - 802.11b/g**
- **Connector:** Antenna (RP-SMA)
- **Standards:** WPA, WEP, ARP, UDP/IP, TCP/IP, ICMP, SNMP, AutoIP, DHCP, TFTP, Telnet and HTTP
- **1 RJ45**
- **10/100 Ethernet**

Indicators (LED)
- Power
- Ethernet Link
- Wireless Link
- Serial 1
- Serial 2

Processor
- **CPU:** DSTni-EX (enhanced 80186, 88 MHz)
- **Memory:** 256 Kbytes SRAM, 512 Kbytes flash

Management
- **Lantronix DeviceInstaller GUI, Serial login, SNMP, Telnet login, HTTP**
- **Security:** WEP, WPA, TKIP

Power
- **Input:** 9-30 VDC
- **Consumption:** 2 W max.
- **AC adapter included** (see ordering information below)

Environmental
- **Operating temperature range:** -40° to 70°C
- **Operating humidity:** 0 to 95%, non-condensing
- **Storage temperature range:** -40° to 85°C

Device Packaging
- **Material:** metal case with flange mount
- **Dimensions (LxWxH):** 94 x 72 x 23 mm (3.7 x 2.8 x .9 in)
- **Weight:** 0.4 kg (0.9 lbs)

Agency Approvals
- FCC-B, C'UL, CSA, CE, TUV, CTick, Japanese Radio Certification (Type Certification of Specified Radio Equipment)
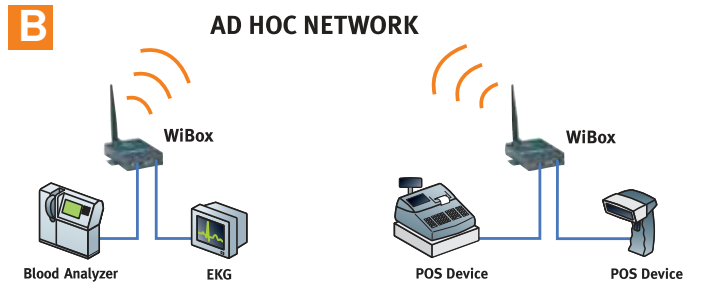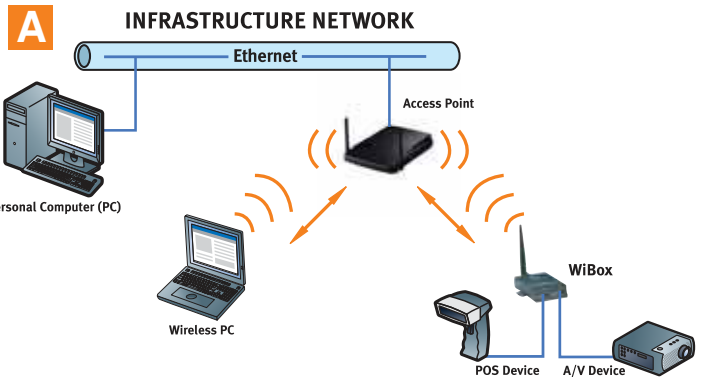
Warranty
- 2-year limited warranty

Shipping Dimensions
- **Dimensions (LxWxH):** 9.5 x 7.2 x 13.97 cm (3.7 x 2.8 x 5.5 in.)
- **Weight:** 1.5 kg (3.0 lbs.)

Included Software and Documentation
- Windows® 98/ME/NT/2000/XP-based configuration software, Com Port Redirector software, related utilities, Quick Start Guide.

Example Configurations

A   INFRASTRUCTURE NETWORK

Ethernet

Access Point

Personal Computer (PC)

WiBox

Wireless PC

POS Device   A/V Device

B   AD HOC NETWORK

WiBox   WiBox

Blood Analyzer   EKG   POS Device   POS Device

WiBox2100E Back Panel

WiBox2100E Front Panel

Ordering Information

Part Number	Description
WB2100EG1-01	WBX2100E 802.11b/g with 10/100 Ethernet, 115Vac, 50/60 HZ power adapter
WB2100EG2-01	WBX2100E 802.11b/g with 10/100 Ethernet, 100-240Vac, 50/60 HZ International power adapter
WB2100EG0-01	WBX2100E 802.11b/g with 10/100 Ethernet, no power supply
WB2100EGB-01	WBX2100E 802.11b/g with 10/100 Ethernet, Board only
ACDIN2001-01	DIN-rail mount
500-164	DB9F to DB9F null modem serial cable

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