





WIBOX 2100E QUICK START CONTENTS

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WiBox 2100E

WHAT'S IN THE BOX

In addition to the WiBox, your package contains the following items:

PART NUMBER DESCRIPTION

500-164	DB9F-DB9F Null Modem Cable
520-079-R	Power Supply (domestic model only)
520-080-R	Power Supply (international model only)
930-029	Antenna, Omni-directional Reversed Polarity
	SMA 2.15dbi

DOCUMENTATION:

CD-ROM containing WiBox User Guide, Com Port Redirector software, and documentation.

OVERVIEW

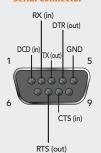
The WiBox 2100E allows serial devices to connect and communicate over 802.11b/g wireless networks using IP protocol (TCP for connection-oriented stream applications and UDP for datagram applications). In addition, the WiBox 2100E includes an RJ45(10/100) Ethernet port for communication to Ethernet devices.

This Quick Start Guide explains how to connect, configure and troubleshoot your unit using a serial connection to a terminal or a PC running terminal emulation software such as Hyperterminal. For more detailed information, refer to the WiBox Users Guide on the provided CD.

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PINOUTS

DB9M DTE Serial Connector



The two DB9M DTE serial ports provide default settings for RS-232C communications running at 9600 baud, 8 bits, no parity, and 1 stop bit (9600, 8, N, 1).



Note: See User Guide for RS422/485 pinout.

WiBox Ethernet Connection



GETTING STARTED

REQUIRED SETTINGS

For the WiBox to operate on a wireless network, two critical settings are required:

- 1. IP address settings
- 2. Appropriate wireless settings

By default, the WiBox is set to Ad Hoc network mode and its wireless network name (SSID) is LTRX IBSS.

DHCP

Many networks use an automatic method of assigning an IP address called DHCP. The WiBox supports DHCP. However, before it can accept an IP address from DHCP, the wireless settings must be configured.

In most installations, a fixed IP address and wireless LAN settings are desired. The systems administrator generally provides these.

IP Address: Subnet Mask: Gateway:	
WLAN SSID:	 _ case-sensitive
WEP Enabled Y/N?	
WEP Key 64 bit or 128 bit:	
WEP Key:	 _ entered in HEX format (0-9 A-F)

XX-XX-XX-XX-XX-XX-XX-XX-XX-XX

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CONNECT

Initial configuration is done using Serial Mode. Complete the following steps to connect and configure the WiBox:

- Connect one end of the supplied DB9F DB9F null modem cable to serial port 1 on the WiBox.
- Connect the other end of the DB9 serial cable to a terminal or a PC's serial COM port.
- 3. On the PC, open a terminal emulation application (e.g. HyperTerminal). The default serial settings are: 9600 baud, 8 bits, no parity, 1 stop bit and no flow control (9600, 8, N, 1).
- 4. Enter Setup Mode by simultaneously connecting the power supply and holding down the **x** key on the keyboard.
- 5. Upon connection, the following information displays:

MAC address 00204A8178A4 Software version V6.1.0.2 (040519)

Press Enter for Setup Mode

6. Press Enter within 5 seconds to display the Change Setup menu.

CONFIGURE IP ADDRESS

Two configuration options must be set for the WiBox to communicate on a wireless network:

- 1. The Server (0) settings
- 2. The WLAN (4) settings

Current settings are displayed in parentheses.

- 1. To configure the Server settings, select **0** from the **Change Setup** menu and edit the following fields:
 - a) **IP Address:** The IP address must be set to a unique value in the network. Type each octet and press **Enter** between each section.

```
IP Address: IP Address: (0) (0) (0) _
```

b) **Set Gateway IP Address**: The gateway address should be the IP address of the router connected to the same LAN segment as the WiBox unit.

```
Set Gateway IP Address (N)? N
```

c) **Netmask**: The netmask defines the number of bits taken from the IP address that are assigned for the host part. Enter the number of host bits. If you leave this blank and press **Enter**, the WiBox will set the subnet mask to a standard netmask for the IP address assigned in step a) above.

```
Netmask: Number of Bits for Host Part (0=default)(0)_
```

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CONFIGURE IP ADDRESS CONTINUED

 d) Change Telnet Configuration Password: Change the Telnet configuration password to prevent unauthorized access to the Setup Menu.

Change telnet config password (N) ? _

e) Change DHCP Device Name: Change the DHCP name if desired.

Change DHCP device name (not set) ? (N) N

CONFIGURE WLAN SETTINGS

- To configure the WLAN settings, select 4 from the Change Setup menu and edit the following fields:
 - a) **Enable WLAN**: Enable the wireless interface. When WLAN is enabled, the Ethernet interface is disabled.

b) **Topology**: Select **Infrastructure** (ESS) or **Adhoc** (IBSS). Infrastructure mode communicates with Access Points. Ad Hoc mode communicates only with other clients.

 Network Name: Enter the network name (SSID). The default is displayed in parentheses.

d) Channel: If Adhoc was selected, select the channel. Channel 11 is the default.

e) Security: As an additional security measure, enable WEP on the WiBox.

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CONFIGURE WLAN SETTINGS CONTINUED...

f) Authentication: When WEP is enabled, select an authentication scheme.

g) **Encryption**: When WEP is enabled, select the encryption type.

- h) Display current key (N): Select Y to display the current key.
- Change Key: Displays when WEP is enabled. Select Y to change the encryption key.

- j) **Key type**: 0=Hex, 1=Passphrase (0)?
- I) TX Data Rate: 0=Fixed, 1=Auto (1) ? If 0(Fixed) is selected:

CONFIGURE WLAN SETTINGS CONTINUED

 m) Enable Power Management: Select Y to reduce the WiBox's overall power consumption. Note: Enabling power management increases the unit's network response time.

```
Enable power management (N) ? _
```

2. Upon completing the IP and WLAN settings configuration, select menu option **9** to save and exit the WiBox Serial Mode.

TEST CONNECTION

The WiBox is ready for wireless connection. To verify that the WiBox established a WLAN connection, open a browser from a PC on the same wireless network and enter the IP address of the WiBox in the URL field, http://xxx.xxx.xxx.xxx.The WiBox web interface should appear.

When configuration is complete, disconnect the serial cable from the PC to the WiBox. This cable may also be used to connect various serial devices to the WiBox.

WiBox 2100E

TROUBLE SHOOTING

WIBOX LEDS

MEANING
Power is on
Active wireless connection, transmitting/receiving
No active connection, searching for network connection
Active network connection
Idle
Active TCP connection
Idle
Active TCP connection

CONTACT

For questions and technical support, please check our online knowledge base at www.lantronix.com/support.

If you need additional help call us at:

(800) 422-7044 Domestic

(949) 453-7198 International

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Our phone lines are open from 6:00 AM - 5:30 PM Pacific Time, Monday through Friday excluding holidays.

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