

WIBOX 2100

WiBox 2100 Quick Start Guide

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WIBOX 2100

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WHAT'S IN THE BOX

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

PART NUMBER

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500-164	DB9F-DB9F Null Modem Cable
520-006	Power Supply (domestic model only)
520-061	Power Supply (International model only)
930-029	Antenna, Omni-directional Reversed Polarity
	SMA 3dbi

DOCUMENTATION:

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

The WiBox allows serial devices to connect and communicate over 802.11b wireless networks using IP protocol (TCP for connection-oriented stream applications and UDP for datagram applications).

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.

PINOUTS



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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 set.

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:		note: this is case-sensitive
WEP Enabled Y/N?		
WEP Key 64 bit or 128 bit:		
WEP Key:		
Entered in HEX forma	at (0-9 A-F) xx-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.

- 1. Connect one end of the supplied DB9F DB9F null modem cable to serial port 1 on the WiBox.
- 2. 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:

*** Lantronix WiBox Device Server *** MAC address 00204A8178A4 Software version 05.6b3 (040519) Press Enter for Setup Mode

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

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

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CONFIGURE IP ADDRESS CON'T.

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

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CONFIGURE WLAN SETTINGS

- 1. To configure the WLAN settings, select **4** from the **Change Setup** menu and edit the following fields:
 - a) Find Network Name: enter the network name (SSID). The default is displayed in parentheses.

Find network name (LTRX_IBSS) ?

b) Enable Ad Hoc Network Creation: Ad Hoc network creation is enabled by default. Select Y to modify Ad Hoc parameters or select N for infrastructure network creation.

Enable Ad Hoc network creation (Y) N ?

c) Security: as an additional security measure, enable WEP on the WiBox.

Security 0=none, 1=WEP (0) ? _

d) Authentication: when WEP is set to enabled, select an authentication scheme.

Authentication 0=open, 1=shared (0) ?_

e) Encryption: when WEP is set to enabled, select the encryption type from the menu.

Encryption 0=WEP64, 1=WEP128 (0) ?_

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CONFIGURE WLAN SETTINGS CON'T.

Change Key (N) ? _

g) Data Rate: the data rate is the WiBox's bandwidth.

Data rate, Only : 0=1, 1=2, 2=5.5, 3=11 Mbps or Up to: 4=2, 5=5.5, 6=11 Mbps (6) ?

 Power Management: enter Y to reduce the WiBox's overall power consumption. Note: enabling power management will increase the unit's network response time.

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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 setup.

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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. The WiBox web interface should appear.

Once configured, disconnect the serial cable from the PC to the WiBox. This cable may also be used to connect various serial devices to the WiBox.

TROUBLESHOOTING

WIBOX LED				
LEDs	MEANING			
Power LED: Green, steady on	Power is on			
Wireless Link LED: Yellow, blinking	Active wireless connection, transmitting/receiving			
Wireless Link LED: Yellow, off Port 1 LED flashes (pauses and repeats) 4 times	No active connection, searching for network connection			
Port 1 LED: Green, steady on	Idle			
Port 1 LED: Green, blinking	Active TCP connection			
Port 2 LED: Yellow, steady on	Idle			
Port 2 LED: Yellow, blinking	Active TCP connection			

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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:

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 (949) 453-7198
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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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