

## How to change the E2W/ESL1 Wi-Fi Transceiver Setup

The E2W/ESL1 Wi-Fi transceiver module contains an own setup configuration. The most important data elements of this setup configuration are the SSID name (Wi-Fi network name), network mode, and the security configuration.



The E2W/ESL1 Wi-Fi transceiver module offer a UART-based setup interface to change the Wi-Fi setup. The COM2 serial port of the DIL/NetPC ADNP/9200 is connected to this interface.

• **1. Step:** The directory **/flash** within the ADNP/9200 root file system contain a pre-configured *minicom* terminal emulation program. This program allows a communication over the UART-based setup link between the ADNP/9200 and the E2W/ESL1 Wi-Fi transceiver module. Please execute the following ADNP/9200 embedded Linux commands within a Telnet session:

```
cd /flash ./minicom
```



The *minicom* terminal emulation program is now connected to the E2W/ESL1 Wi-Fi transceiver module UART interface.



• **2. Step**: Press with one hand the "x" key for the *minicom* terminal emulation program and hold this key down. Then press the reset button on the top of the E2W/ESL1 board and release this button after a short period of time.



The E2W/ESL1 Wi-Fi transceiver module firmware checks after each reset the presence of "x" characters. If some of these characters are detect within a specific period of time, the transceiver module firmware enters a setup mode.



• **3. Step**: Now press the **enter** key for the *minicom* terminal emulation program. The E2W/ESL1 Wi-Fi transceiver module firmware shows the current setup within the *minicom* window and displays a small setup menu.



• **4. Step**: Select the menu item "0 Server" and change the **Network mode** to "2=Bridging (One Host)".

🔤 Telnet 192.168.0.126	- 🗆 ×
Re-notification interval : 0 s	<b>^</b>
*** WLAN WLAN: enabled Topology: Ad-Hoc Network name: LTRX_IBSS Country: US Channel: 11 Security suite: none TX Data rate: 54 Mbps auto fallback Power management: not supported in adhoc mode	
Change Setup: Ø Server 1 Channel 1 2 Channel 2 3 E-mail 4 WLAN 5 Expert 6 Security 7 Defaults 8 Exit without save 9 Save and exit Your choice ? Ø	
Network mode: 0=Wired Only, 1=Wireless Only, 2=Bridging(One Host) (1) ? 2	
Change Setup: Ø Server 1 Channel 1 2 Channel 2 3 E-mail 4 WLAN 5 Expert 6 Security 7 Defaults 8 Exit without save 9 Save and exit 9 Save and exit 9 CTRL-A Z for help + 9600 8N1 + NOR + Minicom 1.81.1 + VI102 + Online 003	:00 -



• **5. Step**: Select the menu item "4 WLAN". First change the **Topology** to "0=Infrastructure". Then change the **Network name (SSID)** to "default".

Telnet 192.168.0.126	_ [] ;
6 Security 7 Defaults 8 Exit without save 9 Save and exit Your choice ? 0	
Network mode: 0=Wired Only, 1=Wireless Only, 2=Bridging(One Host) (1) ? 2	
Change Setup: Ø Server 1 Channel 1 2 Channel 2 3 E-mail 4 WLAN 5 Expert 6 Security 7 Defaults 8 Exit without save 9 Save and exit Your choice ? 4	
Topology: @=Infrastructure, 1=Ad-Hoc (1) ? 0 Network name (SSID) (LTRX_IBSS) ? default Security suite: @=none, 1=WEP, 2=WPÅ, 3=WPÅ2/802.11i (0) ? TX Data rate: 0=fixed, 1=auto fallback (1) ? TX Data rate: 0=1, 1=2, 2=5.5, 3=11, 4=18, 5=24, 6=36, 7=54 Mbps (7) ? Enable power management (N) ?	
Change Setup: 0 Server 1 Channel 1 2 Channel 2 3 E-mail 4 WLAN 5 Expert 6 Security 7 Defaults 8 Exit without save 9 Save and exit 7 CIRL-A Z for help   9600 8N1   NOR   Minicom 1.81.1   VI102   Online 00:00	01

• **6. Step**: Select the menu item "9 Save and exit". This selection stores the new Wi-Fi transceiver module setup configuration. Then check the Wi-Fi connection between the PC and the ADNP/9200 with a *ping*:

## ping 192.168.1.126

For more information please see the document *mHTA9200-09.pdf: How to use the E2W/ESL1 Wi-Fi Adapter.* 

Eingabeaufforderung
C:\>ping 192.168.1.126
Ping wird ausgeführt für 192.168.1.126 mit 32 Bytes Daten:
Zeitüberschreitung der Anforderung.
Antwort von 192.168.1.126: Bytes=32 Zeit=7ms ITL=64
Antwort von 192.168.1.126: Bytes=32 Zeit=4ms ITL=64
Antwort von 192.168.1.126: Bytes=32 Zeit=4ms ITL=64
Ping-Statistik für 192.168.1.126:
Pakete: Gesendet = 4, Empfangen = 3, Verloren = 1 (25% Verlust),
Ca. Zeitangaben in Millisek.:
Minimum = 4ms, Maximum = 7ms, Mittelwert = 5ms
C:\>\_

**Please note:** Sometime the first *ping* goes wrong. This is normal. The E2W/ESL1 Wi-Fi transceiver module needs some time to find and connect to an access point.

That is all.