

I951HCx0 (BALI/EVIA) series

WiFi 802.11ac + BT5.0 LGA Wireless Modules

BT Demo with BT keyboard App note

Version 1.0

Table of Contents

1. Overview	3
2. Hardware Requirements.....	4
3. Procedure.....	5

1. Overview

This Document describes, How to up the BT interface and procedure to connect the any BT interface to BALI.

2. Hardware Requirements

Note: This document is tested with the **BALI FMPCle** card

- BALI (USB/SDIO/PCle)
- Toradex Ixora Board with Power adaptor
- IDC-DB9 female adapter
- USB serial converter
- Access Point
- HDMI Display Monitor
- HDMI Cable
- Speaker
- Mouse
- Bluetooth Keyboard

3. Procedure

1. Connect BALI evaluation board to Ixora board.
2. Connect the antenna to the j2 port of BALI.
3. Connect the DB9 Female adapter to X22 port on Ixora
4. Power ON the PC and login.
5. Connect the USB to UART converter between the PC and the RS232.
6. Run the below command to get the port name of USB terminal
`$dmesg`
7. Open the serial terminal like putty and configure the port name and set the baud rate as 115200
8. Connect HDMI cable between Ixora board HDMI port and HDMI Display Monitor.
9. Connect mouse to the X8 port of Ixora board.
10. Power ON the Ixora then boot messages will display on the Terminal.
11. Check for BT interface by issuing below command
`$ hciconfig -a`
12. Enable interface by issuing below command
`$hciconfig <BT_interface> up`
Example: `$ hciconfig hci0 up`
13. Enable the Bluetooth interface
`$ connmanctl enable bluetooth`
14. Start Bluetoothctl by giving below command
`$ bluetoothctl`
15. To scan for available Bluetooth devices, issue the following commands:
`$ scan on`
16. After getting the required device stop scanning by issuing below command.
`$ scan off`
17. Pair your device using the MAC address
`$ pair <MAC_Address>`
Example: `$ pair 11:22:33:44:55:66`
18. Connect to the Bluetooth device by issuing the below command
`$ connect <MAC Address>`

Example: `$ connect 11:22:33:44:55:66`

19. To list the connected device information issue the below command

`$ info <MAC Address>`

Example: `$info 11:22:33:44:55:66`