

# Ubuntu RT3290 Bluetooth Host Driver User Guide

## 1. User Environment

- OS version: Ubuntu 12.04 LTS
- Linux kernel version: 3.2.0-23 i386/x86\_64
- Gcc version: 4.5.3.
- Shell version: dash 0.5.7
- If the binary files don't be executed, please use command to change access permissions, e.g "chmod 777 [filename]".
- Please reference note 2. and 3. to understand how to install RT3290 Bluetooth host driver and related service.

## 2. Module Installing

- Please check your RT3290 PCI-e Bluetooth device. You can use command "lspci" to look up device name "Bluetooth: Ralink corp. Device 3298".
- Insert module into kernel by this following commands in order.
  - a) "sudo modprobe bluetooth" to make sure that BlueZ related service launched.
  - b) "sudo insmod rtbth.ko"
  - c) "sudo mknod /dev/rtbth c 192 0"

## 3. Rtbth Service Launching

- Before you up application, please copy rtbt.bin to /etc/Wireless/RT3290 folder. If you don't have that folder, please create it.
- Copy the 49rtbt to /usr/lib/pm-utils/sleep.d/ to obtain suspend/hibernate support
- Up application by "sudo ./rtbt.bin" command.
- You can see Bluetooth UI icon appears and use command "dmesg" to dump Linux kernel message to make sure Bluetooth device boot up successfully.

## 4. Profile Support List

- Human Interface Device Profile (HID) v1.0
- Object Push Profile (OPP) v1.1
- File Transfer Profile (FTP) v1.1
- Advanced Audio Distribution Profile (A2DP) v1.2

- Hands Free Profile (HFP) v1.5
- Headset Profile (HSP) v1.2

5. Software Package Changed list

- Update LED changing when Fn key involves.
- USLM is v2.0.3 and DDLM is v3.9.3