

# Bluetooth

need patch from <https://patchwork.kernel.org/patch/10728073/> (v5 does not work!) and increased sleep in <https://elixir.bootlin.com/linux/v5.0-rc5/source/drivers/soc/mediatek/mtk-scpsys.c#L248>

change

```
usleep_range(12000, 12100);
```

to

```
msleep(50);
```

this is already done in my repo (5.4)

⚠ CONFIG\_BT\_MTKUART needs to be module to load firmware (has to be done after rootfs is mounted)

```
root@bpi-r64:~# mkdir -p /lib/firmware/mediatek
root@bpi-r64:~# wget
https://git.kernel.org/pub/scm/linux/kernel/git/firmware/linux-firmware.git/
plain/mediatek/mt7622pr2h.bin
root@bpi-r64:~# cp mt7622pr2h.bin /lib/firmware/mediatek/
root@bpi-r64:~# apt-get update
root@bpi-r64:~# apt-get install bluez
root@bpi-r64:~# reboot
```

```
#boot kernel with applied tty-patch and increased scpsys-sleep
```

## bluetoothctl

```
# bluetoothctl
```

```
[bluetooth]# help
Menu main:
Available commands:
-----
advertise                Advertise Options Submenu
scan                     Scan Options Submenu
gatt                     Generic Attribute Submenu
list                     List available controllers
show [ctrl]              Controller information
select <ctrl>            Select default controller
devices                  List available devices
paired-devices           List paired devices
system-alias <name>     Set controller alias
reset-alias              Reset controller alias
```

power <on/off>	Set controller power
pairable <on/off>	Set controller pairable
mode	
discoverable <on/off>	Set controller
discoverable mode	
agent <on/off/capability>	Enable/disable agent with
given capability	
default-agent	Set agent as the default
one	
advertise <on/off/type>	Enable/disable advertising
with given type	
set-alias <alias>	Set device alias
scan <on/off>	Scan for devices
info [dev]	Device information
pair [dev]	Pair with device
trust [dev]	Trust device
untrust [dev]	Untrust device
block [dev]	Block device
unblock [dev]	Unblock device
remove <dev>	Remove device
connect <dev>	Connect device
disconnect [dev]	Disconnect device
menu <name>	Select submenu
version	Display version
quit	Quit program
exit	Quit program
help	Display help about this
program	
export	Print environent variables

```
[bluetooth]# power on
Changing power on succeeded
[bluetooth]# agent on
Agent is already registered
[bluetooth]# default-agent
Default agent request successful
[bluetooth]# scan on
Discovery started
[CHG] Controller 00:00:46:76:22:01 Discovering: yes
[bluetooth]# devices #already paired, so remove first
Device B4:9D:0B:5F:2A:B9 Aquaris X5 Plus
[bluetooth]# remove B4:9D:0B:5F:2A:B9
[DEL] Device B4:9D:0B:5F:2A:B9 Aquaris X5 Plus
Device has been removed
[NEW] Device B4:9D:0B:5F:2A:B9 Aquaris X5 Plus
[bluetooth]# pair B4:9D:0B:5F:2A:B9
Attempting to pair with B4:9D:0B:5F:2A:B9
[CHG] Device B4:9D:0B:5F:2A:B9 Connected: yes
Request confirmation
[agent] Confirm passkey 953871 (yes/no): yes
[CHG] Device B4:9D:0B:5F:2A:B9 Paired: yes
```

```
Connection successful
[CHG] Device B4:9D:0B:5F:2A:B9 UUIDs: 00001103-0000-1000-8000-00805f9b34fb
...
[CHG] Device B4:9D:0B:5F:2A:B9 UUIDs: 936da01f-9abd-4d9d-80c7-02af85c822a8
Authorize service
[agent] Authorize service 00001108-0000-1000-8000-00805f9b34fb (yes/no):
Request canceled
[CHG] Device B4:9D:0B:5F:2A:B9 ServicesResolved: no
[CHG] Device B4:9D:0B:5F:2A:B9 Connected: no
```

## issues

```
grep bluetooth /var/log/syslog
```

if it shows something like this on connect:

```
bluetoothd[197]: a2dp-source profile connect failed for MAC:0F:BT:DEVICE:
Protocol not available
```

you need to install pulseaudio-module-bluetooth and restart bluetoothd

```
apt install --no-install-recommends pulseaudio-module-bluetooth
systemctl restart bluetooth
```

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