

Sample application: **Bluetooth Switch**  
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## What you need

- **IFBT41 (RN-41/42 Bluetooth module)**
- **3.3V power supply**
- **Smartphone/Tablet with Android (>= 2.3)**

## How it works

The hardware for this sample application consists only of the Bluetooth module and a 3.3V power supply. Using an Android app you can toggle GPIO7 of the Bluetooth module.

The Bluetooth module must be initialized ONCE:

Power on, connect and send **\$\$\$** within 1 minute (use any Bluetooth terminal). Then

**sf,1** (factory defaults)

**sj,0800** (maximum connect window)

**st,254** (command mode always available)

**s%,8484** (GPIO7 and GPIO2=connect set to output after power up)

**s^,80XX** (XX =00/80: GPIO7 low/high after power up)

Install **bttm.apk** (Bluetooth terminal).

Before you start the terminal, the Bluetooth module must be paired with your smartphone/tablet (in Settings/Bluetooth).

Start the terminal and prepare the Bluetooth module as described above.

Then install and run **bts.apk**.

## Operation

When the app gets started, it shows the screen for Bluetooth device selection. All currently paired devices are offered. As it makes no sense to connect to devices other than the Bluetooth module, the selection can be limited to device names containing a particular string, defined in settings. Always offered is „Demo“, in case the external hardware is not available. If only one device is available, it is selected automatically.

On successful connection, the main screen is shown. There are two large keys to switch on/off. The active switch state gets displayed in color (red =Off, green =On). Pressing an active key again has no effect.

In settings you can enable acoustic and haptic feedback when a switch operation was successful (switching on clicks/vibrates once, switching off twice).

## Screenshots

