Bluetooth module.

Basic information:

(Hardware version: 0x01)

Bluetooth 2.1 (Serial Port Profile)

UUID: 00001101-0000-1000-8000-00805F9B34FB

Default PIN: 1234 (can be changed by user since 0.97 firmware)

(Hardware version: 0x02)

Bluetooth 4.0

Serial service: 0000ffe0-0000-1000-8000-00805f9b34fb

Characteristic descriptor: 00002902-0000-1000-8000-00805f9b34fb RX/TX characteristic: 0000ffe1-0000-1000-8000-00805f9b34fb

Default PIN: not set (can be changed by user,)

Baud rate: 115200bps

Data bits: 8 Stop bits: 1 Parity: None

Requirements:

InputStick BT2.1: your platform must allow to establish Bluetooth connection, use Serial Port Profile, read and write individual bytes.

InputStick BT4.0: your platform must allow to read/write RX/TX characteristic.

Data throughput:

Data transfer rate between MCU and BT module: 115200bps. BT2.1 can achieve transfer rate very close to this value, BT4.0 is usually 3-4x slower.

Latency:

InputStick BT2.1: in most cases you should expect approximately 50ms latency between sending a request and receiving response. However in some situations (low signal strength, interference), latency can even exceed 1000ms. Avoid requesting response if possible. InputStick BT4.0: in most cases latency will not exceed several ms.

Security:

Use Encrypted Bluetooth connection if possible.

Example (Java, Android):

```
(...)
BluetoothDevice mAdapter.getRemoteDevice("30:14:07:31:14:68");
device.createRfcommSocketToServiceRecord(MY_UUID); //...The remote device will be authenticated and communication on this socket will be encrypted...
(...)
```

You can also apply AES-128 based encryption and authentication on protocol level.