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Memo: KMA Dongle for Host Device(PC,Android,Linux) guide

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# Introduction

This document serves as a guide for the use of KMA master dongle, which could enable devices with BLE capability, to be used on a host device(PC,Android,Linux).

# KMA Dongle Features

KMA dongle is connected with host device through USB, and will be enumerated as a HID keyboard, printer and mic on the host operating system. And correspondingly it enables the dongle for key event report, communication with host and working as a mic. The communication between dongle and host is conducted by a series of commands and events in the following section.

* key report
* voice streaming
* connect/disconnect
* OTA
* application profiles e.g. battery status

# USB & Communication protocol

## USB

Communication between dongle and Host device will be set USB bulk class, and **bulk in** works on endpoint 8 and **bulk out** works on endpoint 5.

And OTA bin file burning will be completed by a Linux tool we provide.

## Communication protocol

Communication between dongle and Host device is implemented in the form of command&event.

Data from host device to the dongle is called command, and otherwise event.

Communication APIs between dongle and STB over USB:

1.commands

* 1.1 scan cmd

start or stop scan adverting packets, once started, adv packets will be reported by adv report event

0xfa 0x01 + en

en: 0x00 disable

0x01 enable

ps . we recommend enable scan for a certain time like 30s, because in the limited time-space, adv events are always repeated.

* 1.2 connect cmd

0xfa 0x02 + mac address

mac address: mac address for the advertising device to connect

* 1.3 disconnect cmd

0xfa 0x03 0x00

No parameter

* 1.4 ota start cmd

0xfa 0x04 0x00

No parameter

* 1.5 battery status cmd

0xfa 0x05 0x00

No parameter

ps. Please fill in the handle value in your own case

2. Events

* 2.1 adv event

0xca 0xfc 0x00 + mac address

* 2.2 connection evt

0xca 0xfc 0x01 + mac address

* 2.3 disconnection evt

0xca 0xfc 0x02

# Supplements

To be added