**Slave**

USB MIDI

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# History

Table 1: History

|  |  |
| --- | --- |
| **Date/period** | **Actions** |
| Nov 8, 2017 | Initial Version |

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# Introduction

This document describes the USB MIDI slave. It should be incorporated in the normal MIDI device but if not possible, it will be this separate slave.

# Requirements

## Generic

TODO

## Hardware

TODO

## Software

TODO

# Inputs/Outputs

TODO

# Design

## Diagnostics LEDs

Table : Diagnostics LEDs

|  |  |  |
| --- | --- | --- |
| **Function** | **LED Color** | **Description** |
| Power | Blue (generic) | Off: Power off  On: Power on |
| RF | Yellow (generic) | Off: empty message transmitting/receiving  Slow blinking: contact with controller  Double fast blinking per second: no contact with slave  Triple fast blinking per second: problem with RF  On: non empty message transmitting/receiving |

Note that if the GUI Device shows errors whenever possible.

## Breadboard Layout

TODO

## Proto Layout

TODO

## Component List

TODO

# Software

## Design

TODO

## Memory Usage

This device does not receive messages, since there are no outputs.

Only a buffer is needed for sending received signals from pressed/changed controls, which is TODO bytes.

## Timing Performance

Only the translation from signals to messages is needed, and sending them to the Controller:

TODO

# Testing

## Unit Tests

TODO

## Integration Tests

TODO