

# mnmlCore

we want to create a small STM32F4 based Board (for example 10x4cm in size), with limited Pins/sockets...

[FantomXR](#) had made such a thing before, so we start with his working design, and invest some time in it

see also this article: [Another Midibox Core](#)

## Introduction

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## Features

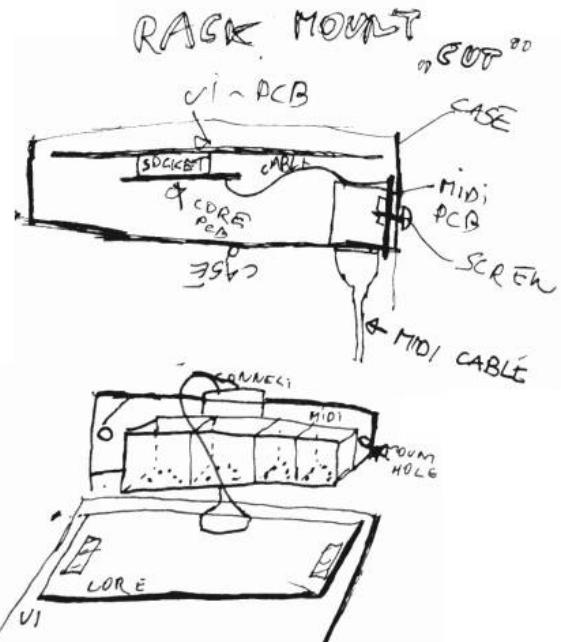
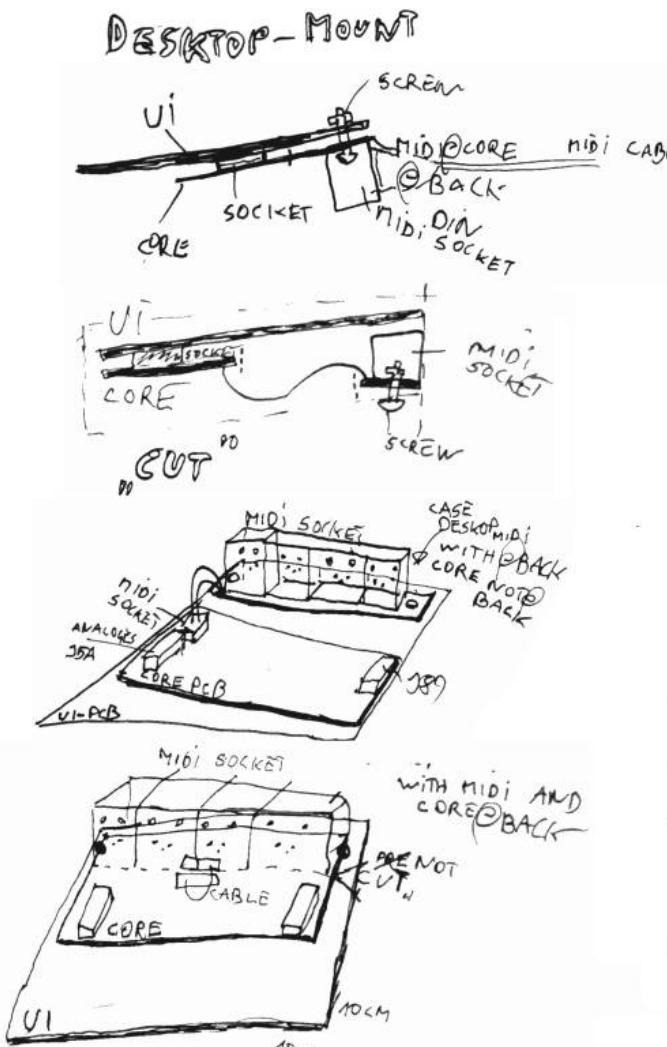
- ...  
- ...

## Hardware Requirements

- a jtag programmer (or a Discovery Board)
- Soldering Iron, Wires, PCB....
- USB Power Supply

## Design Concepts

phatlines idea with onboard-split-cut MidIO:



Showing a 10x4cm sized Core32  
plugged into a 10x10cm UI-PCB  
also a midiport-solution is shown, where a  
midiPCB is fabricated on the core PCB but with  
the possibility to break it down, the  
optocouplers diodes and Resistors for the  
Midiports are on the Core PCB, so the Midi-IO  
pcb can be small as possible, so we achieve a  
small Project (small case, small ui...)

## Resources

## Forum to discuss

# Community users working on it

- **Phatline** = Documentation, PCB-layout-or at least give it a first try...

Just let a Private message on the forum to user already involved

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