

MBHP Core STM32

About

aka Core32

This page very incomplete as this is still in development
All about the module

Getting Started

- [Tools](#)
- [Soldering](#)
- [Where to buy Parts](#)
- [Etching PCB's](#)
- [Terminating cables](#)

Special Instructions

- [Soldering SMD components](#)
- etc

Details

Pin out list

list it

PCB files

list 'em

Schematic

you can do it

List of parts

list

(Source: MBHP CORE_32 Orderlist from <http://mbhp.avishowtech.com> 2009/09/10)

| Description | Qty | Mouser Part # | Digi-Key Part # |
|-----------------------------------|-----|--------------------|------------------------------|
| Voltage Regulator 7805 | 1 | 511-L7805CV | |
| Voltage Regulator LF33 | 1 | 511-LF33CV | 497-7313-5-ND |
| Optocoupler 6N138 | 2 | 512-6N138 | 6N138QT-ND |
| IC-Sockets for Optocoupler | 2 | 571-1-390261-2 | 3M5473-ND |
| Diode 1N4148 | 3 | 78-1N4148 | 1N4148FS-ND |
| Transistor BC337 | 1 | 512-BC33725TA | BC33725TACT-ND |
| 74HC595 | 1 | 595-SN74HC595N | |
| IC-Socket for 74HC595 | 1 | 571-1-390261-4 | 3M5475-ND |
| Crystal 12 MHz | 1 | 815-ABL-12-B2 | |
| Ceramic Cap 33 pF | 2 | 140-50N5-330J-RC | 399-4172-ND |
| Ceramic Cap 100 nF | 9 | 21RZ310-RC | |
| Ceramic Cap 330 nF | 1 | 80-C320C334M5U | |
| Polarised Capacitor 10 µF 25v | 1 | 140-HTRL25V10-RC | |
| Polarised Capacitor 47 µF 25v | 1 | 140-HTRL25V47-RC | |
| Polarised Capacitor 100 µF 16v | 1 | 140-HTRL16V100-RC | |
| Polarised Capacitor 2200 µF 16v | 1 | 140-HTRL16V2200-RC | |
| Resistor 100 kΩ | 1 | 291-100K-RC | |
| Resistor 10 kΩ | 2 | 291-10K-RC | |
| Resistor 4.7 kΩ | 2 | 291-4.7K-RC | |
| Resistor 2.2 kΩ | 2 | 291-2.2K-RC | |
| Resistor 1 kΩ | 5 | 291-1K-RC | |
| Resistor 470 Ω | 1 | 291-470-RC | |
| Resistor 220 Ω | 6 | 291-220-RC | |
| Resistor 27 Ω | 2 | 291-27-RC | |
| Resistor Network 4*10 kΩ | 1 | 652-4605X-1LF-10K | 4605X-101-103-ND (non-stock) |
| Resistor Network 4*1 kΩ | 3 | 652-4605X-1LF-1K | 4605X-101-102-ND (non-stock) |
| Resistor Network 4*220 Ω | 1 | 652-4605X-1LF-220 | 4605X-101-221-ND (non-stock) |
| TrimPot 10 kΩ | 2 | 531-PT6KV-10K | |
| Green Status LED | 1 | 859-LTL-4232N | |
| Bridge Rectifier | 1 | 625-W06G-E4 | |
| USB Socket B-Type | 1 | 649-61729-1010BLF | |
| PCB MIDI sockets | 4 | 161-0504-E | |
| 2×5 DIL Headers | 7 | 517-30310-6002 | |
| 2×8 DIL Headers | 2 | 517-30316-6002 | |
| 2×10 DIL Header | 1 | 517-30320-6002 | |
| 1-row SIL Headers (about 20 pins) | 1 | 517-6111TG | |
| 1-row SIL socket (3 * 5 pins) | 1 | 517-984-01-05 | |
| Jumpers | 6 | 151-8033-E | |

STM32

F103RB

[F103RB](#)

- [About](#)
- [Basic Specs](#)
- [Pros/Cons](#)

F103RE

[F103RE](#)

- [About](#)
- [Basic Specs](#)
- [Pros/Cons](#)

Building it

Building instructions

blah blah blah

Testing

testing instructions

Common issues / Troubleshooting

blah blah blah

References

[Hardware troubleshooting](#)

From:

<https://wiki.midibox.org/> - **MIDIbox**

Permanent link:

<https://wiki.midibox.org/doku.php?id=home:mbhp:module:core32&rev=1252597661>

Last update: **2009/09/10 15:47**

