MBHP Core STM32

About

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aka Core32
This page very incomplete as this is still in development
All about the module
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Getting Started

- Tools
- Soldering
- Where to buy Parts
- Etching PCB's
- Terminating cables

Special Instructions

- Soldering SMD components
- etc

Details

Pin out list

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list it
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PCB files

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list 'em
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Schematic

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you can do it
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List of parts

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list
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(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

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blah blah blah
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Testing

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testing instructions
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Common issues / Troubleshooting

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References

Hardware troubleshooting

From:
https://midibox.org/dokuwiki/ - **MIDIbox**

Permanent link:
https://midibox.org/dokuwiki/doku.php?id=home:mbhp:module:core32&rev=1252597661

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