

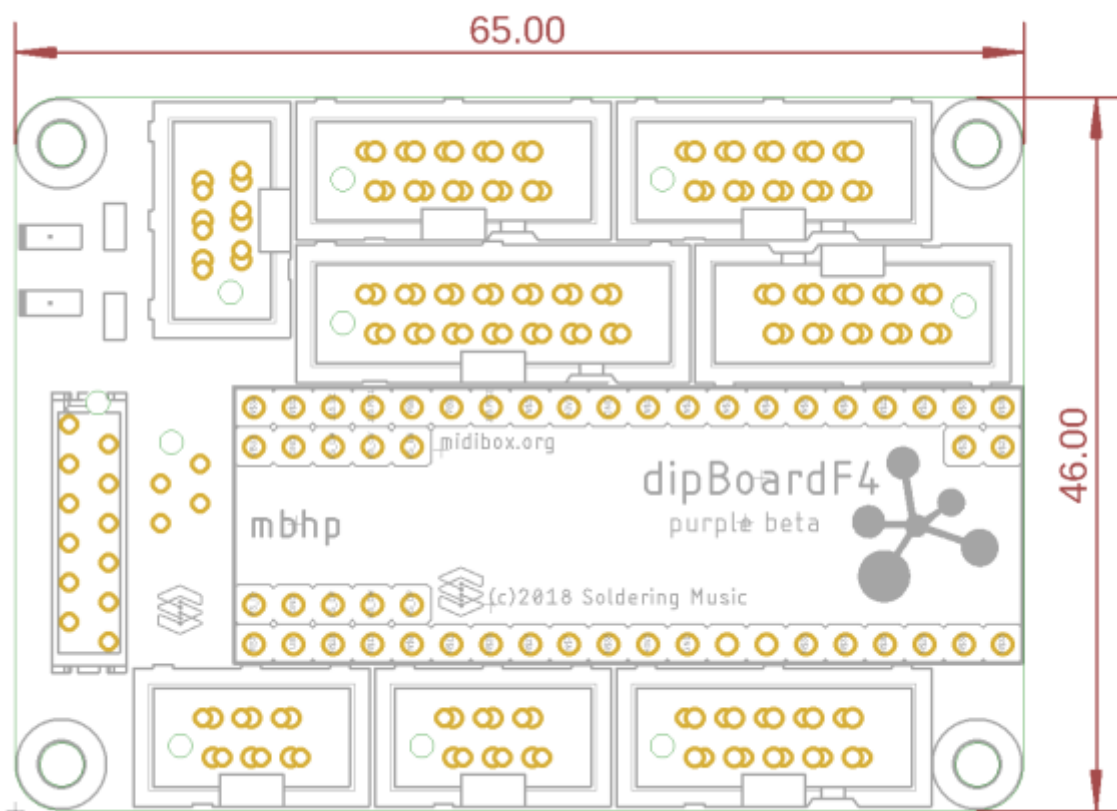
# dipBoardF4

MIDIbox Hardware Platform extension for [dipCoreF4](#).

## Features

- Very small size 65x46mm(less than your credit card).
- Very low profile.
- Your application board can be stacked on bottom with 'Micro-match' connectors.
- The [dipCoreF4](#) can be installed on the two side.
- Provides all the most important features and ports for regular mbhp.
- Compatible with latigid on's [USB](#) and [RES-SD](#) modules.

## Dimension



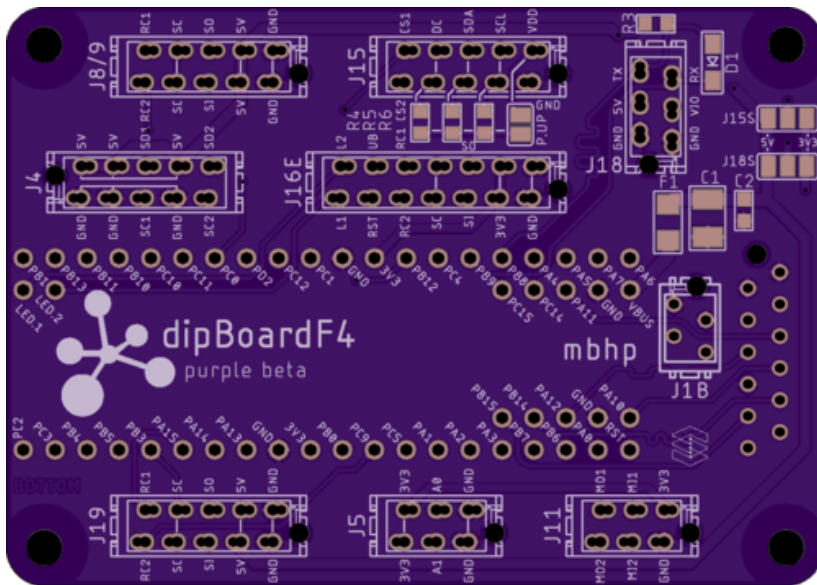
## PCB

2 layers PCB design.  
Fits 2 layer mostly common design

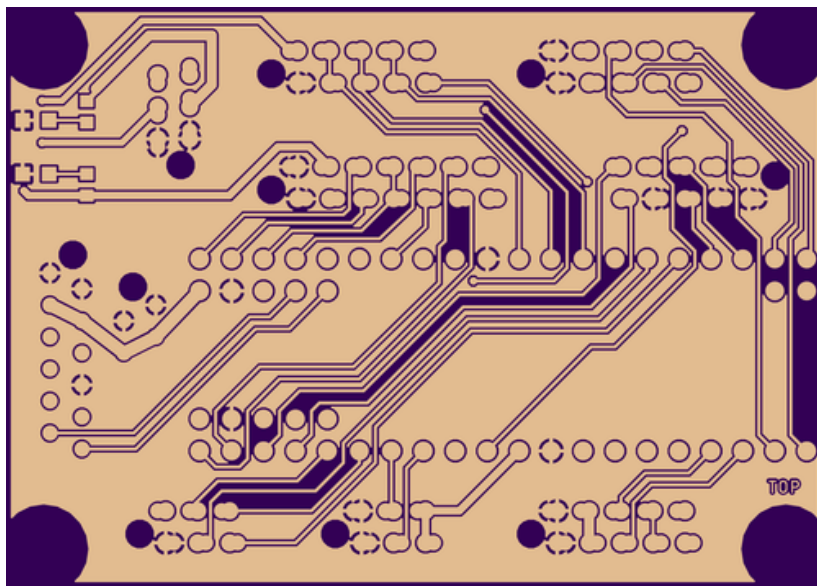


rules.

- min. drill 10mil
- min. width 6mil



### Top copper



Bottom



## BOM

version 1. Mouser BOM: [ToDo](#)

Qty	Value	Package	Parts	Mouser	Reichelt	Conrad	Other	Notes
<b>Resistors</b>								
2	680R 5%	0603	R1, R2					Depends on Leds
4	1K 5%	0603	R3, R4, R5, R6					R3 if you use CAN without transceiver
<b>PTC fuses, resettable thermistors</b>								
1	1206L150THWR	1206	F1	<a href="#">576-1206L150THWR</a>				
<b>Capacitors</b>								
1	100n	0603	C2					
1	47u	SMC_B	C1					
<b>Diode</b>								
1	1N4148WS	SOD323-W	D1	<a href="#">512-1N4148WS</a>				Only if you use CAN without transceiver
<b>LEDs</b>								
2	-	0805	5V, 3V3					
<b>dipCoreF4 socket</b>								
2	1x20	low profile female		<a href="#">517-929870-01-20-RA</a>				for pads 1 to 40
2	1x5	low profile female		<a href="#">517-929870-01-05-RA</a>				for pads 41 to 50
1	1x2	low profile female		<a href="#">517-929870-01-02-RA</a>				for pads 51 to 52

Qty	Value	Package	Parts	Mouser	Reichelt	Conrad	Other	Notes
<b>Resistors</b>								
<b>Connector</b>								
1	micro-match 2x6	Female	J1A	<a href="#">571-8-215079-2</a> or <a href="#">571-1-2178710-2</a> (value line)				Place on top
<b>3 options available for PORTs connectors(depends on you app.)</b>								
<b>Option 1 - Regular Shrouded Headers</b>								
3	2x3	Male	J5, J11, J18	<a href="#">710-61200621621</a>				Place on top
4	2x5	Male	J4, J8/9, J15, J19	<a href="#">710-61201021621</a>				Place on top
1	2x7	Male	J16E	<a href="#">710-61201421621</a>				Place on top
<b>Option 2 - Stacking Micro-Match Connector</b>								
1	2x2	Female	J1B	<a href="#">571-7-215079-4</a> or <a href="#">571-2178710-4</a> (value line)				Place on bottom
3	2x3	Female	J5, J11, J18	<a href="#">571-215079-6</a> or <a href="#">571-2178710-6</a> (value line)				Place on bottom
4	2x5	Female	J4, J8/9, J15, J19	<a href="#">571-12150790</a> or <a href="#">571-1-2178710-0</a> (value line)				Place on bottom
1	2x7	Female	J16E	<a href="#">571-8-215079-4</a> or <a href="#">571-1-2178710-4</a> (value line)				Place on bottom
<b>Option 3 - Micro-Match Paddle Board for low profile connector</b>								
3	2x3	IDC	J5, J11, J18	<a href="#">571-7-215570-6</a>				Place on top
4	2x5	IDC	J4, J8/9, J15, J19	<a href="#">571-8-215570-0</a>				Place on top
1	2x7	IDC	J16E	<a href="#">571-8-215570-4</a>				Place on top

## Ports and features.

ToDo

## Compatible/stack-able boards options

- [M16 Interface](#), stack-able, to connect on a SPI port, provides 16 MIDI IO and 48 GPIO



ToDo

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