

# MBHP: The MIDIbox Hardware Platform

The hardware of all MIDIbox [projects](#) can be assembled in a modular way. Some projects have special designed modules, others only require a [Core Module](#). Every project needs at least one Core.

## Modules Overview

<box 99% blue|**Core MicroController Modules**>



- [Core32 Module](#)

### Outdated

- [Core8 Module](#)
- [PIC Programmer Modules](#)

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<box 47% left green|**Analog Inputs / Outputs**>



- [AINSER8 Module](#) Multi Analog Input
- [AINSER64 Module](#) Multi Analog Input++
- [AOUT Module](#) Analog Output Voltages
- [AOUT LC Module](#) Low-Cost AOUT
- [MF Module](#) MotorFader Control

### Outdated

- [AIN Module](#) Analog Input (0-5V)

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<box 47% right red|**Digital Inputs / Outputs**>



- **DIN Module** Digital Input
- **DOUT Module** Digital Output
- **LCD Module** Liquid Crystal Display
  
- **IIC Modules** to communicate to other (microcontroller) devices via I2C
- **SD Card Module**
- **USB Modules** PC/USB Interface

*Outdated*

- **BankStick** Memory module to store settings

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<box 47% left orange|**Sound Synthesis Modules**>



- **SID Module** for the famous C64 sound chip
- **OPL3 Module** for the FM-Chips YMF262 and YAC512
- **IIC SpeakJet Module** for the SpeakJet sound chip

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## For Developers

If you have somehow improved a PCB layout, please submit your changes here:

- **PCB Layout Improvements** for MBHP Modules

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