# 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***Outdated***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
- **AOUT NG Module** Analog Output Voltages - Newest Version

- **MF_NG** 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***Outdated***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
- **MIDI I/O** 2xMIDI I/O
- **quad_iic_midi** 4xMIDI Out
- **LCD Module** Liquid Crystal Display

- **IIC Modules** Communication to third-part 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***Outdated***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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