

# MIOS

## Overview

MIOS is the Operating System of the Chip. This Page covers MIOS and the BOOTLOADER (or Bootstrap Loader). General Informations can be found in the Intro-Article: [what is a MIDibox](#).

There are two versions of MIOS: The (older) **MIOS8**, used for MBHP\_Core modules equipped with 8bit PIC uControllers and **MIOS32** used for the Core32 modules with 32bit STM controllers. If you are planning to build a new MidiBox, you should use the newer Core32 that allows much more complex devices.

## MIOS8

MIOS8 is used for MBHP\_Core modules equipped with PIC18F452, PIC18F4620 or PIC18F4685.



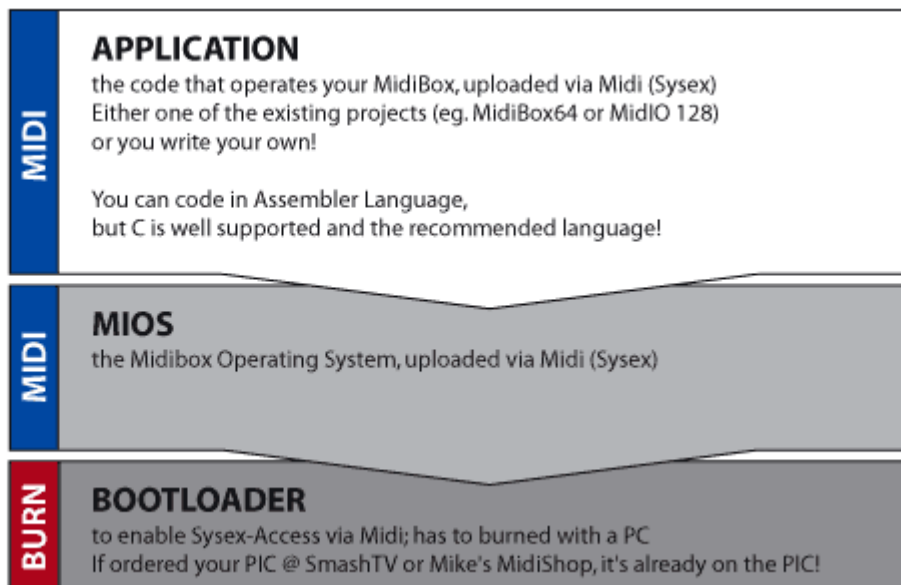
LCD Output (e.g.)



LCD Output



LCD Output



The Article [MIOS Bootstrap For Newbies](#) (also available as [MIOS Bootstrap](#) in different languages) contains important informations about how to upload MIOS - the operating system - and an application.

Developers should consult the related project pages or [Application Development](#).

## Documentation

- [Introduction](#) uCApPs
- [Change Log](#) uCApPs
- [MIOS project summary RSS feed](#)
- [MIOS-Downloads](#) uCApPs
- [Bootstrap Loader](#) uCApPs
  - check out [pic\\_programmer\\_modules](#) to know how to get the Bootstrap Loader onto the

PIC.

- [Application Development Section](#)
- [MIOS running on a PIC18F4620](#) (for certain future applications)

## Frequently Asked Questions



[MIOS FAQ - Questions and Answers !](#)

## MIOS32

MIOS32 is used on Core32 boards, equipped with the 32bit STM32F103RE processor. MIOS32 is prepared for other 32bit uCs as well and allows platform independent applications.

## Documentation

- [Core32 Introduction](#) <sup>uCApps</sup>
- [MIOS32 Download](#) <sup>uCApps</sup>
- [Toolchain setup guide for Windows](#)

## See Also

[Mios studio](#)

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