

# Mikromedia 3 for PIC32MZ Resistive FPI with frame



PID: MIKROE-6285

# mikromedia<sup>3</sup>

for PIC32MZ RESISTIVE FPI with frame

Mikroe produces entire development toolchains for all major microcontroller architectures.

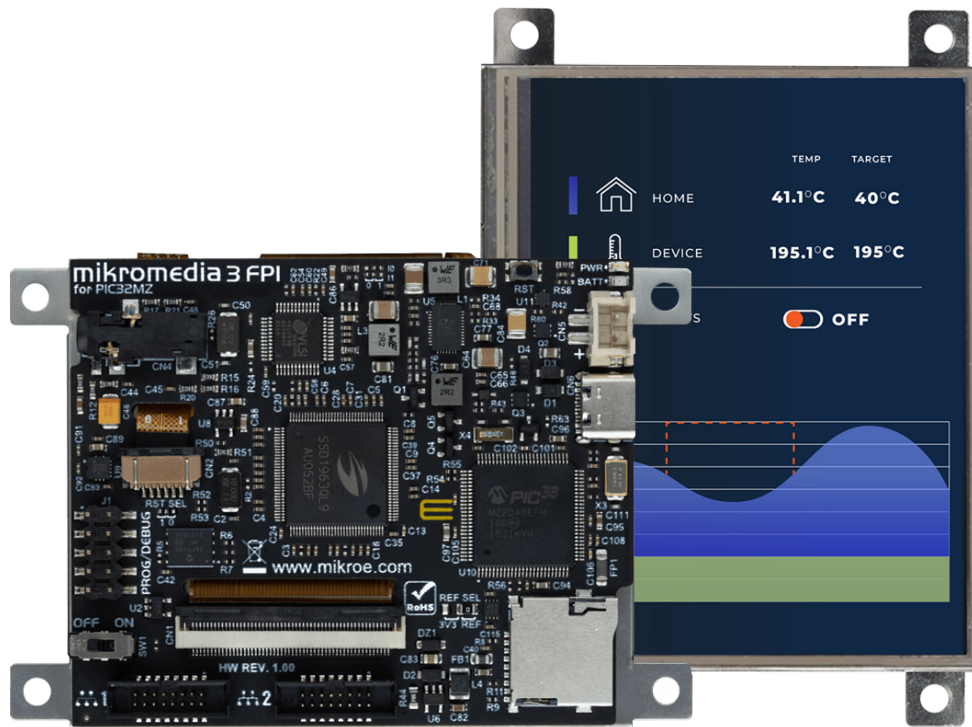
Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.  
ISO 14001: 2015 certification of environmental management system.  
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).



**Rapid development of multimedia and gui-centric applications**

**BUILD GREAT GUI IN NO TIME**

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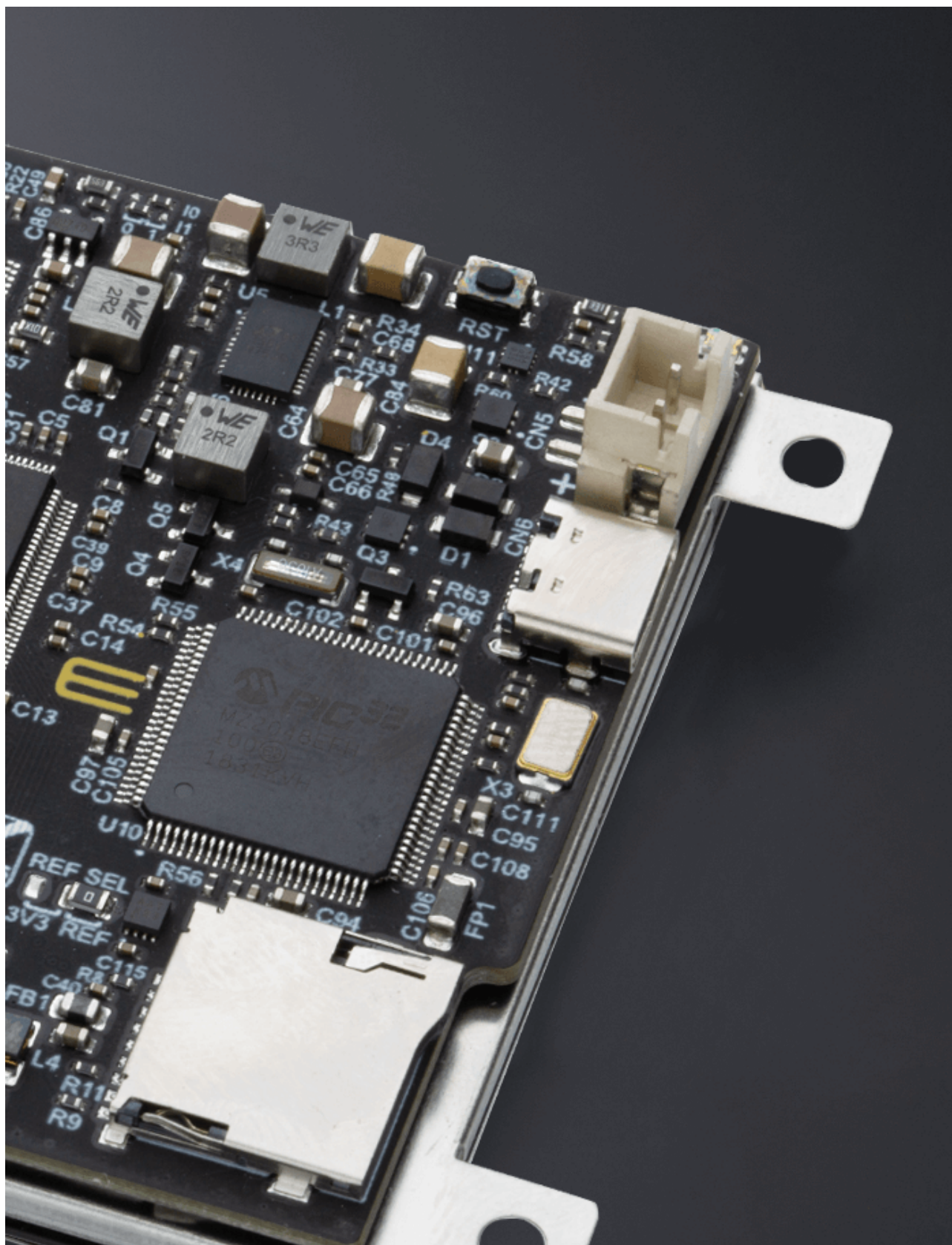
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## Rich with peripherals

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Mikromedia 3 for PIC32MZ RESISTIVE is not limited to multimedia-based applications only. USB, digital motion sensor, battery charging functionality, SD card reader and much more expands its use beyond the multimedia.

Mikromedia 3 for PIC32MZ RESISTIVE FPI with frame has two mikroBUS™ Shuttle connectors, a brand-new addition to the mikroBUS™ standard in the form of a 2x8-pin IDC header with 1.27mm (50mil) pitch. [mikroBUS™ Shuttle](#) extension board is an add-on board equipped with the conventional mikroBUS™ socket, which ensures compatibility with 1125 [Click boards™](#).

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## Awesome graphics on MCU driven TFT

Mikromedia 3 for PIC32MZ RESISTIVE is a compact development board designed as a complete solution for the rapid development of multimedia and GUI-centric applications. By featuring a 3.5" TFT display with resistive touch screen driven by the powerful graphics controller that can display the 24-bit color palette (16.7 million colors), along with a DSP-powered embedded sound CODEC IC, represents a perfect solution for any type of multimedia application.

Once you have downloaded [NECTO Studio](#), and since you already got the board, you are ready to start writing your first GUI projects. Start using one of the most popular graphics library in the embedded industry - [LVGL graphics library](#), an integral part of NECTO Studio.

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## Develop-on & build-in the same board

Mikromedia 3 for PIC32MZ RESISTIVE FPI (FPI stands for Front Panel Integration) with frame is designed as the complete solution. It can be implemented directly into any project, with no additional hardware modifications. At its core, there is a powerful 32-bit [PIC32MZ2048EFH100](#) microcontroller from [Microchip](#), which provides sufficient processing power for the most demanding tasks. Board has a TFT display with a metal frame, and four mounting holes that enable simple installation in various kinds of industrial appliances. For most uses, a nice casing is all that is needed to turn this product into a high-performance, feature-rich device. This board requires the use of an external programmer and debugger, preferably [CODEGRIP](#) or [mikroProg](#). The microcontroller can be programmed and debugged over the Microchip ICSP compatible 2x5 pin header, labeled as PROG/DEBUG.

## Specifications

|                    |                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------|
| Architecture       | PIC32 (32-bit)                                                                                             |
| Display size       | 3.5"                                                                                                       |
| Resolution         | 320x240px                                                                                                  |
| Graphic controller | SSD1963                                                                                                    |
| Touch Screen       | Resistive                                                                                                  |
| Silicon Vendor     | Microchip                                                                                                  |
| Frame Type         | Metal Frame                                                                                                |
| Features           | USB Type C,USB Host,SD Card,ON/OFF switch,MP3,External DC source,Battery Powered,Batt. Chg. when OFF,Accel |

## Downloads

[Mikromedia 3 for PIC32MZ Resistive FPI with frame 2D and 3D files](#)

[Mikromedia 3 for PIC32MZ Resistive FPI with frame manual](#)

[Mikromedia 3 for PIC32MZ Resistive FPI with frame schematic](#)

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