

mikromedia HMI 3.5"

PID: MIKROE-2275

Weight: 90 g

A smart display solution, **mikromedia HMI 3.5"** has a high-brightness **320x240px** color display on the front, and a powerful **FT900Q** 32-bit MCU with additional essential circuitry on the back - making it a standalone but cost-effective solution suitable for industrial applications.

Quantity

1  

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DESCRIPTION

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mikromedia HMI boards are driven by **FTDI Chip's FT900Q** with their proprietary **32-bit RISC core** with industry-leading performance. With execution from shadow memory, the MCU can achieve speeds of **3.1 DMIPS/MHz at 100 MHz**. FT900Q has 256KB of Flash memory, a small part of which is taken by the **built-in bootloader**.

The concept of mikromedia HMI is to keep only the essential components that simplify its integration into a final product, whilst keeping overall costs down.

The board integrates a **microSD card** for expanding storage capacity, a **haptic feedback motor**, small **audio speaker**, and a **micro USB connector**. A connector for interfacing the MCU with external electronics, along with a separate connector for FT900Q's **parallel camera interface**.

mikromedia for HMI 3.5" has a high-quality **Riverdi display** with **16.7M color depth** and **550 NIT brightness**. The display is driven by a **FT812 graphic controller**. A **mounting frame** surrounding the screen simplifies integration.

Tutorial on learn.mikroe.com | Code for demo example on [Libstock](#) | Schematics on [documentation page](#)

Extras. **mikromedia HMI breakout board** (sold separately) contains a micro USB port, an RJ-45 ethernet connector, as well as an external programmer connector (ideally used with **mikroProg for FT90x**). Two 24-pin flat cables are included in the packaging, enabling the use of both mikromedia HMI connectors at the same time (MAIN, CAMERA).

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