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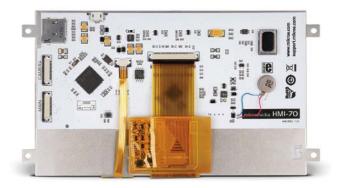




MIKROE-2289

OVERVIEW

| Summary | A smart display solution, mikromedia HMI 7" Res has a 800x480px color display with a resistive touch panel 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. |
|----------------------|--|
| MCU | 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 . |
| Additional circuitry | 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 . |
| Display | mikromedia for HMI 5" Res has a high-quality Riverdi display with 16.7M color depth and 550 NIT brigtness . The display is driven by a FT812 graphic controller. A mounting frame surrounding the screen simplifies integration. |







MIKROE-2289

KEY FEATURES

- Size: 7"
- Resolution: 800x480
- Brightness: 320
- MCU: FT900Q

Speed: 100MHz; 310 DMIPS

Memory: 256 KB Flash

Peripherals include: 2xCAN, 2xSPI, 2xI2C, I2S, UART

- Graphic controller: FT812
- Touchscreen: Resistive
- Interface: Main connector, Camera connector, Micro USB
- Storage: 8MB Flash + MicroSD card slot
- Audio speaker
- Haptic feedback engine
- Mounting frame





Dot Pitch

(mm2)

0.73 x 0.219

0.73 x 0.219

0.73 x 0.219

0.066 x 0.198

0.066 x 0.198

0.066 x 0.198

0.066 x 0.198

0.066 x 0.198 0.045 x 0.135

MIKROE-2289

COMPARISON CHART

Size Resolution Touch Luminosity Active Graphics Haptic Panel Area Controller Feedback mikromedia HMI 3.5" 3.5" 320 x 240 70.08 x 52.56 FT812 None 540 No mikromedia HMI 3.5" Res 3.5" 320 x 240 Resistive 450 70.08 x 52.56 FT812 No mikromedia HMI 3.5" Cap 3.5" 320 x 240 Capacitive 480 70.08 x 52.56 FT813 No mikromedia HMI 4.3" 4.3" 480 x 272 None 550 95.04 x 53.86 FT812 Yes mikromedia HMI 4.3" Res 4.3" 480 x 272 Resistive 440 95.04 x 53.86 FT812 Yes mikromedia HMI 4.3" Cap 4.3" 480 x 272 Capacitive 500 95.04 x,53.86 FT813 Yes mikromedia HMI 4.3" UXB 4.3" 480 x 272 Capacitive, UX Black 500 95.04 x 53.86 FT813 Yes mikromedia HMI 4.3" UXW 4.3" 480 x 272 Capacitive, UX White 500 95.04 x 53.86 FT813 Yes mikromedia HMI 5" 5.0" 800 x 480 None 600 118.00 x 64.80 FT812 Yes mikromedia HMI 5" Res 5.0" 800 x 480 Resistive 480 118.00 x 64.80 FT812 Yes 5.0" 510 mikromedia HMI 5" Cap 800 x 480 Capacitive 118.00 x 64.80 FT813 Yes mikromedia HMI 5" UXB Capacitive, UX Black FT813 5.0" 800 x 480 510 118.00 x 64.80 Yes Capacitive, UX White mikromedia HMI 5" UXW 5.0" 800 x 480 510 118.00 x 64.80 FT813 Yes 7.0" mikromedia HMI 7" 800 x 480 400 154.08 x 85.92 FT812 Yes None mikromedia HMI 7" Res 800 x 480 Resistive 154.08 x 85.92 FT812

See how mikromedia HMI 5" compares with the rest of the product line.

Product Name

mikromedia HMI 7" Cap

7.0"

800 x 480

Capacitive

350

154.08 x 85.92

FT813

Yes

| mikromedia HMI 7" UXB | 7.0" | 800 x 480 | Capacitive UX Black | 350 | 154.08 x 85.92 | FT813 | Yes | 0.045 x 0.135 |
|-----------------------|------|-----------|---------------------|-----|----------------|-------|-----|---------------|
| mikromedia HMI 7" UXW | 7.0" | 800 x 480 | Capacitive UX White | 350 | 154.08 x 85.92 | FT813 | Yes | 0.045 x 0.135 |