

emWEB-7

Low-Cost Web-Panel with HTML5 browser support

PRODUCT DESCRIPTION

The emWEB-7 panel device is designed to simply visualize machine data provided in web pages, either in pages of CODESYS web visualization or in web pages of any other web-based environment. They are based on a Freescale i.MX6 dual core ARM processor. A minimal pre-installed Debian Linux OS is the basis for a HTML5 web browser application which automatically starts in full screen mode after system boot-up.

FEATURES

Processor

- Freescale NXP i.MX6D, 2 x 800 MHz

Display

- 7.0" WVGA TFT display
- Resolution 800 x 480
- Aspect ratio 16:9
- Viewing Angle: 120° (hor.)/120° (vert.)
- Luminance: 800 cd/m² (min.), 1000 cd/m² (typ.)
- Contrast Ratio: Up to 500:1
- UV protection

Touchscreen

- 4-wire resistive touchscreen with single touch

Memory

- 1 GB DDR3 memory (soldered to board)

Storage

- 8 GB microSD card (internal)

External Interfaces

- 1 x 10/100 BaseT Ethernet
- 1 x USB 2.0
- 1 x Connector for power supply
- 1 x CAN (optional)

Environment

- Ambient operating temperature: -20 °C ... 55 °C
- Non-operating temperature range: -20 °C ... 75 °C
- Humidity: 0 % ... 80 % @ 25 °C, non-condensing
- Dimensions (w x h x d) 213,5 x 147,0 x 24,0 mm
- Housing:
 - Solid metal sheet housing for industrial usage
 - IP65 front side, IP20 rear side
- Front design „Janz Tec“ for default
- CE certified

Power Supply

- Input 9 ... 34 V_{DC}

Software

- Minimal Debian Linux operating system
- HTML5 browser application automatically starting in full screen mode after system boot up

Options

- Customized front design possible (MOQ)
- 4 free programmable buttons at front side (MOQ)
- CAN Interface
- Security Features
 - Signed and encrypted boot (High Assurance Boot)
 - Hardware random number generator
 - Hardware-accelerated cryptographic engine