

emWEB Series

Low-Cost Web-Panels with HTML5 browser support



PRODUCT DESCRIPTION

The emWEB panel devices are 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 is the basis for a HTML5 web browser application which automatically starts in full screen mode after system boot-up.

FEATURES

Processor

- Freescale i.MX6D, 2 x 800 MHz

Display

- 7", 10.1" 15.6" or 21.5" TFT display ¹⁾
- LED backlight technology
- Aspect ratio 16:9
- Viewing Angle: Up to 178 ° ¹⁾
- Luminance: Up to 500 cd/m² ¹⁾
- Contrast Ratio: Up to 5000:1 ¹⁾
- MTBF of back light: 50,000 h

Touchscreen

- Capacitive touchscreen (PCT) with multi touch and glass surface ¹⁾
- Resistive touchscreen with single touch ¹⁾

Memory

- 1 GB DDR3 memory (soldered to board)

Storage

- 8 GB microSD card (internal)

External Interfaces

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

Environment

- Ambient operating temperature: 0 °C ... 55 °C
- Non-operating temperature range: -20 °C ... 75 °C
- Humidity: 0 % ... 80 % @ 25 °C, non-condensing
- Housing:
 - Solid metal sheet housing for industrial usage
 - IP65 front side, IP20 rear side
- Front design „Janz Tec“ for default

¹⁾ Feature depends on system type. Please see table SYTEM DEPENDENT FEATURES for further information

Power Supply

- Input 9/14 ... 34 V_{DC}¹⁾

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

SYSTEM DEPENDENT FEATURES

System Type	emWEB-7	emWEB-10	emWEB-15	emWEB-21
Touch technology	Resistive	Capacitive Multitouch	Capacitive Multitouch	Resistive
Display size	7.0" WSVGA	10.1" WXGA	15.6" WXGA	21.5"
Display resolution	1024 x 600	1280 x 800	1366 x 768	1920 x 1080
Contrast ratio	600:1	800:1	500:1	5000:1
Viewing angle	120 ° (hor.) 120 ° (vert.)	170 ° (hor.) 170 ° (vert.)	170 ° (hor.) 160 ° (vert.)	178 ° (hor.) 178 ° (vert.)
Luminance	400 cd/m ²	500 cd/m ²	400 cd/m ²	300 cd/m ²
Input Level	9 ... 34 V _{DC}	9 ... 34 V _{DC}	14 ... 34 V _{DC}	14 ... 34 V _{DC}
Power consumption	8 W	11 W	14 W	18 W
Dimensions in mm (w x h x d)	213.5 x 147 x 24	288 x 225 x 53.5	427 x 279 x 34	570.1 x 366.7 x 34
Built-in depth in mm	tbd	tbd	tbd	tbd