



## emWEB series

Web panel with HTML5 browser support



### PRODUCT DESCRIPTION

emWEB panel devices are designed to simply visualize machine data provided in web pages, either in pages of a CODESYS web visualization or in web pages of any other web based environment. emWEB panel devices are based on a Freescale i.MX6 dual core ARM processor. It can be supplied with 9V to 34V power and is connected via an Ethernet interface with the machine network.

A minimal, pre-installed Linux operating system is the basis for a HTML5 web browser application which

automatically starts in full screen mode after system boot-up and which automatically connects with a pre-configured web server address. Device configuration can also be done via a web service.

Optionally advanced security features are available. The A/iMX6 provides a full verified, signed and encrypted boot during the complete boot sequence and the operating system. The Janz Tec AG grants a full chain of trust.

### FEATURES

#### Display

- 7", 10", 15" or 21" TFT display <sup>1)</sup>
- Aspect ratio 16:9
- Contrast Ratio <sup>1)</sup>
- Viewing Angle <sup>1)</sup>
- Luminance 500 cd/m<sup>2</sup> <sup>1)</sup>
- LED backlight technology

#### Touch Screen

- Resistive touch screen
- Projected capacitive touchscreen (PCT)

#### Processors

- Freescale i.MX6Dual, i.MX6Quad (optional)

#### System

- Fanless cooling
- Real time clock (battery backed up)

- 4 free programmable buttons at front site (optional)

#### Storage Mediums / Memory

- 1 GB DDR3 memory (soldered to board)
- 8 GB µSD card (internal)

#### Interfaces

- 1 x RJ45 connector for 10/100BaseT Ethernet
- 1 x USB 2.0
- 1 x Connector for power supply
- 1 x CAN (optional)

#### Software

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

#### Certifications

- CE

<sup>1)</sup> depends on device type, please see corresponding table below

### Options

- CAN (Controller Area Network) interface
- Security features:
  - Signed and encrypted boot
  - Hardware random generator (NIST certified)
  - Hardware accelerated cryptographic engine
- Customized front design possible

### Housing

- Solid metal sheet housing for industrial usage
- IP65 front side, IP20 rear sides
- Front design “Janz Tec” for default

### Physical and environmental conditions

- Ambient operating temperature range 0°C ... + 55°C
- Non-operating temperature range -20°C ... 75 °C
- Humidity 0% ~ 80%, non-condensing

## DEVICE TYPE DEPENDANT PROPERTIES

Order Information	emWEB-7		emWEB-10	emWEB-15	emWEB-21
Order Information	SY-EMW-00007	SY-EMW-00107	SY-EMW-00110	SY-EMW-00016	SY-EMW-00021
Touch technology	Resistive	Capacitive Multitouch	Capacitive Multitouch	Resistive	Resistive
Display size	7.0” WSVGA		10.1” WXGA	15.6” WXGA	21.5” Full HD 1080p
Display resolution in pixel	1024 x 600		1280 x 800	1366 x 768	1920 x 1080
Contrast ratio	600 : 1		800:1	500 : 1	5000 : 1
Viewing angle	150° (hor.) 145° (vert.)		170° (hor.) 170° (vert.)	170° (hor.) 160° (vert.)	178° (hor.) 178° (vert.)
Luminance in cd/m <sup>2</sup>	300		500	300	300
Input level	9 ... 34 V <sub>DC</sub>		9 ... 34 V <sub>DC</sub>	14 ... 34 V <sub>DC</sub>	14 ... 34 V <sub>DC</sub>
Power consumption	8W		11W	14W	18W
Dimensions (w x h x d) in mm	213,5 x 147,0 x 24,0		288,0 x 225,0 x 33,0	427,0 x 279,0 x 34,0	570,1 x 366,7 x 34,0

## CONTACT INFORMATION

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