Embedded Computing

# 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 [1])
- Aspect ratio 16:9
- Contrast Ratio [1])
- Viewing Angle [1])
- Luminance 500 cd/m² [1])
- 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

[1]) depends on device type, please see corresponding table below



© 2018 Janz Tec AG

All rights reserved. All other brands or names are property of their respective holders. Specifications are subject to change without notice

Industrial Computing Architects

### 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/m²*** | 300 | | 500 | 300 | 300 |
| **Input level** | 9 … 34 $V_{DC}$ | | 9 … 34 $V_{DC}$ | 14 … 34 $V_{DC}$ | 14 … 34 $V_{DC}$ |
| **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

Janz Tec AG
Im Dörener Feld 8
33100 Paderborn
Germany

Phone +49.52 51.15 50.0
Fax +49.52 51.15 50.190
E-Mail sales@janztec.com
Web www.janztec.com



© 2018 Janz Tec AG

All rights reserved. All other brands or names are property of their respective holders. Specifications are subject to change without notice