

emVIEW-X

Panel PC System based on x86 Technology



PRODUCT DESCRIPTION

The emVIEW emPC-X is a self-developed product by Janz Tec, featuring various Intel® Atom™ processors. The standard sizes are available from 6 to 15 inches. Custom hardware configuration and designs are available upon request.

FEATURES

Processor

- Intel® Atom™E3800-series (Bay Trail)
- Intel® Atom™E3900-series (Apollo Lake)
- Intel® Atom™x6000-series (Elkhart Lake) ³⁾

Display

- 6.5", 8.4", 12.1" or 15.0" TFT display ¹⁾
- LED backlight technology
- Aspect ratio 4:3
- Viewing Angle: 178 ° ¹⁾
- Luminance: Up to 800 cd/m² ¹⁾
- Contrast Ratio: up to 1000:1 ¹⁾
- MTBF of back light: 50,000 h

Touchscreen

- Resistive touchscreen with single touch

Memory

- up to 4 GB RAM system memory
- 128 kB battery-free NVRAM

Storage

- up to 32 GB eMMC flash
- Internal CFAST Socket for SATA SSD

External Interfaces

- 2 x 10/100/1000 MBit/s Ethernet
- 3 x USB 2.0
- 1 x DVI-D graphics interface
- Up to 4 x 9-pin D-SUB connectors for CAN or serial ports ²⁾
- Serial port with RTS/CTS only

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

³ In Developing. Contact your sales team for further informations.

² Available with 2 D-SUB: 2 x RS232 or 2 x CAN/CANopen or 1 x RS232 & 1 x CAN/CANopen.
4 D-SUB: additional 2 x RS232/485 or 2 x CAN/CANopen.
More interfaces on request.

Environment

- Ambient operating temperature: 0 °C ... 50 °C
- Non-operating temperature range: -20 °C ... 75 °C
- Humidity: 5 % ... 95 % @ 25 °C, non-condensing ¹⁾
- IP65 front protection, IP20 rear protection

Power Supply

- 14 ... 32 V_{DC}

Software

- Debian Linux operating system
- Windows 10 IoT
- CODESYS

Options

- SD card slot
- CAN, RS232, RS485, digital I/O, or further interfaces on request
- Customized front design possible
- Capacitive touch screen (PCT) for multi-touch use - „only for emVIEW-12T & emVIEW-15T“

SYSTEM DEPENDENT FEATURES

System Type	emVIEW-6T/X	emVIEW-8T/X	emVIEW-12T/X	emVIEW-15T/X
Display size	6.5"	8.4"	12.1"	15.0"
Display resolution	640 x 480	800 x 600	800 x 600	1024 x 768
Contrast ratio	1000:1	600:1	700:1	2500:1
Viewing angle	178 ° (hor.) 178 ° (vert.)	178 ° (hor.) 178 ° (vert.)	160 ° (hor.) 140 ° (vert.)	176 ° (hor.) 176 ° (vert.)
Luminance	800 cd/m ² (typ.)	450 cd/m ² (typ.)	500 cd/m ² (typ.)	500 cd/m ² (typ.)
Humidity	5 % ... 95 %	5 % ... 90 %	5 % ... 95 %	10 % ... 90 %
Dimensions in mm (w x h x d)	193.5 x 158.8 x 78	256.4 x 189.4 x 70	320 x 260 x 102	320 x 260 x 105
Built-in depth in mm	68	61	92	95