

# emVIEW-CX+

## Panel PC System based on X86 Technology



### PRODUCT DESCRIPTION

The emVIEW emPC-CX+ is a self-developed product by Janz Tec, featuring various AMD Ryzen™, Intel® Atom™ und Intel® Core™ processors. The standard sizes are available from 12 to 21 inches. Custom hardware configuration and designs are available upon request.

### FEATURES

#### Processor

- AMD Ryzen™ V1404I (4 x 2.0/3.6 GHz) <sup>2)</sup>
- Intel® Atom™ x7-E3950 (4x 1.6/2.0 GHz) <sup>2)</sup>
- Intel® Xeon® E3-1505L V6 (4 x 2.2 / 3.0 GHz) <sup>2)</sup>

#### Display

- 12.1", 15.0" or 21.5" TFT display <sup>1)</sup>
- LED backlight technology
- Aspect ratio 4:3 / 16:9 <sup>1)</sup>
- Viewing Angle: up to 178 ° <sup>1)</sup>
- Luminance: Up to 500 cd/m<sup>2</sup> <sup>1)</sup>
- Contrast Ratio: up to 5000:1 <sup>1)</sup>
- MTBF of back light: up to 50.000 h (min.) <sup>1)</sup>

#### Touchscreen

- Resistive touchscreen with single touch

#### Memory

- up to 48 GB RAM system memory
- 128 kB non-volatile MRAM

#### Storage

- External CFAST socket for SATA SSD
- Internal socket for miniPCIe card
- Internal ports for 2.5" HDD/SSD

#### External Interfaces

- 2 x 10/100/1000 MBit/s Ethernet
- 4 x USB 3.0 <sup>4)</sup>
- 1 x RS232/485
- 1 x DVI-D graphics interface

<sup>1)</sup> Feature depends on system type. Please see table SYSTEM DEPENDENT FEATURES for further information

<sup>2)</sup> Standard. For other processors don't hesitate to contact our sales team.

<sup>3)</sup> Digital I/O connector variants with 4 inputs/outputs or 8 inputs only are available.

<sup>4)</sup> 3 x USB 3.0 + 1 x USB 2.0 in combination with AMD Ryzen V1404I

## Environment

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

## Power Supply

- 14 ... 32 V<sub>DC</sub>

## Software

- Debian Linux operating system
- Windows 10 IoT
- CODESYS

## Options

- 2 x CAN/CANopen (optionally with digital IO) or 1 x CAN/CANopen, 1 x RS232 (optionally with digital IO) <sup>3)</sup>
- up to 2 x PCIe (x4) or 4 x PCIe (x1) expansion slots
- Customized front design possible
- Capacitive touch screen (PCT) for multi-touch use

## SYSTEM DEPENDENT FEATURES

System Type	emVIEW-12T/CX+	emVIEW-15T/CX+	emVIEW-21WT/CX+
Display size	12.1"	15.0"	21.5"
Display resolution	800 x 600	1024 x 768	1920 x 1080
Contrast Ratio	700:1	2500:1	5000:1
Viewing angle	160 ° (hor.) 140 ° (vert.)	176 ° (hor.) 176 ° (vert.)	178 ° (hor.) 178 ° (vert.)
Luminance	500 cd/m <sup>2</sup> (typ.)	500 cd/m <sup>2</sup> (typ.)	250 cd/m <sup>2</sup> (typ.)
Humidity	5 % ... 95 %	10 % ... 90 %	5 % ... 90 %
Aspect ratio	4:3	4:3	16:9
MTBF of back light	50.000 (min.)	50.000h (min.)	30.000h (min.)
Dimensions in mm (w x h x d)	320 x 260 x 125 (0-Slot) 320 x 260 x 181 (2-Slot)	382.1 x 306 x 130 (0-Slot) 382.1 x 306 x 190 (2-Slot)	567 x 367 x 125 (0-Slot) 567 x 367 x 185 (2-Slot)
Built-in depth in mm	117 (0-Slot) 173 (2-Slot)	120 (0-Slot) 180 (2-Slot)	117 (0-Slot) 177 (2-Slot)