emVIEW-8 series

8.4" Industrial Displays and Panel PC Systems based on ARM and X86 Technology

PRODUCT DESCRIPTION

emVIEW systems have a modular mechanical concept. They can be based on different emPC hardware depending on needed CPU performance.

Because of always using the original emPC boards as CPU unit, the CPU part has exactly the same features as their emPC pendants. Therefore please take a look at the corresponding emPC data sheets for getting more detailed information about the CPU system.

emVIEW = emPC + Display

emVIEW systems have a 8 mm bend-proof aluminum front panel ensuring IP65 protection class at front side. They are based on long-term available displays and electronic components. Custom configurations and designs are available upon request as well as function keys and control elements integrated in the front design.

Display types can be adapted to customer requirements such as special daylight conditions, other aspect ratios or displays which can be used under heavy environmental conditions such as extended temperature or heavy shock and vibration load.

FEATURES

LCD-Display

- 8.4” SVGA display
- LED backlight technology
- Aspect ratio 4:3 (Landscape)
- Resolution 800 x 600
- 256.000 colors
- Viewing Angle 160° (hor.); 140° (vert.)
- Luminance 350 cd/m² (min.), 400 cd/m² (typ.)
- Contrast Ratio 370:1 (min.), 500:1 (typ.)
- MTBF of back light 50,000h
- Internally connected with emPC via LVDS interface, display interface of emPC is available in addition!

Front Panel

- Front design “Janz Tec” for default
- Custom front design possible
- Protection class IP65 at front side

Power Supply

- 14 ... 32 V_{DC}

Touch Screen

- 4-wire resistive touch screen (standard)
- Capacitive touch screen (PCT) for multi-touch use available on request

Dimensions

- Frame Thickness: 8 mm
- Frame Size: 256.4 x 189.4 mm
- Built-In depth: 55 … 69 mm[1]

Interfaces[1]

- 2 x Ethernet
- Up to 3 x USB 2.0
- 2 x 9 Pin D-SUB connector for CAN or serial ports

Processors[1]

- None, industrial display only
- NXP i.MX515 (ARM Cortex A8, 1 x 600 MHz)
- NXP i.MX6Q (ARM Cortex A9, 4 x 800 MHz)
- Intel Atom E3815 (X86, 1 x 1,46 GHz)
- Intel Atom E3825 (X86, 2 x 1,33 GHz)

Environment [1]

- -20°C…60°C ambient operating temperature
- -20°C…75°C storage temperature
- Humidity 0...80 % @ 25°C (non-condensing)

Hardware Options

- Projective Capacitive Touchscreen (PCT)
- Function Keys in front (capacitive or mechanical)
- RFID wireless scanning unit integrated in front design
- Custom front design
- IP67 housing with swing arm mounting

Operating system and software support [1]

- Windows CE 6.0
- Windows Embedded Standard (WES) 7
- Windows 7, Windows 8
- Linux
- Other operating systems on request.

CODESYS support [1]

- CODESYS V2 and V3 Runtime Environment available, optionally pre-installed
- CODESYS Target Visualization
- CODESYS Web Visualization
- CODESYS SoftMotion

COMBINABLE emPC® SYSTEMS

emPC-A/iMX6

emVIEW-8 panel PCs can be based on emPC-A500 fanless embedded system with i.MX6 multi-core ARM CPU

emPC-A500

emVIEW-8 panel PCs can be based on emPC-A/iMX6 fanless embedded system based on i.MX515 single-core ARM CPU

emPC-X

emVIEW-8 panel PCs can be based on emPC-X fanless embedded PC system based on Intel ATOM CPU

PRODUCT KEY

emVIEW – 8 T / A500 / …

Combined emPC system type

- A500/… : emPC-A500
- A/i.MX6/… : emPC-A/iMX6
- X/A-E38xx : emPC-X/A-E38xx

Display size and format / Touchscreen type

- T: 4:3 format, resistive touch screen
- MT: 4:3 format, projective capacitive touch screen (PCT)
- WT: Wide format, resistive touch screen
- WMT: Wide format, projective capacitive touch screen (PCT)

[1] depends on combined emPC system, for more detailed information please take a look at the corresponding emPC data sheet

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