

emVIEW-8 series

8.4" Panel PC Systems based on ARM and X86 Technology



emVIEW-8 with emPC-A/iMX6

PRODUCT DESCRIPTION

emVIEW systems have a modular mechanical concept. They can be based on different emPC hardware depending on needed CPU performance and interfaces. A 8 mm bend-proof aluminum front panel ensures IP65 protection class at front side. Custom configurations and designs are available upon request.

FEATURES

Display

- 8.4" SVGA display size
- LED backlight technology
- Aspect ratio 4:3
- Resolution: 800 x 600
- Luminance: 450 cd/m² (typ.)
- Contrast Ratio: 600:1 (typ.)
- MTBF of back light: 50,000 h
- Internally connected with emPC via LVDS interface.
Display interface of emPC is available in addition.

Touchscreen

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

External Interfaces

- 2 x 10/100/1000 MBit/s Ethernet
- Up to 3 x USB 2.0 ¹⁾

- Up to 4 x 9-pin D-SUB connector for CAN or serial ports ³⁾

Power Supply

- Input 14 ... 34 V_{DC}

Environment

- Up to -20 °C ... 60 °C ambient operating temperature ¹⁾
- Up to -20 °C ... 75 °C storage temperature ¹⁾
- Humidity 5 ... 80 % @25 °C, non-condensing

Options

- Projective Capacitive Touchscreen (PCT)
- Expansion boards available for additional I/O and other peripherals ²⁾
- Function Keys in front (capacitive or mechanical)
- RFID wireless scanning unit integrated in front design
- Custom front design
- IP67 housing with swing arm mounting

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

² Please see external datasheet for available expansion boards

SYSTEM DEPENDENT FEATURES

System Type	emVIEW-8T/A/iMX6	emVIEW-8T/X/A-E3825	emVIEW-8T/X/A-E3940
Processor	NXP i.MX6Q quad-core CPU based on ARM Cortex-A9, 4 x 800 MHz	Intel Atom E3825 (2 x 1.33 GHz, 1 MB L2 Cache)	Intel Atom x5-E3940 (4 x 1.6/1.8 GHz, 2 MB L2 Cache)
Memory	2 GB DDR3 RAM, 128 kB battery-free NVRAM	2 GB DDR3L RAM, 128 kB battery-free NVRAM	4 GB DDR3L RAM, 128 kB battery-free NVRAM
Storage	Internal CFast Socket, Internal SD card slot	Internal CFast Socket, Externally accessible SD card slot (optional)	
Interfaces	2 x RJ45, 2 x USB (V2.0), Up to 4 x 9-pin D-SUB connectors ³⁾ ,	2 x RJ45, 3 x USB (V2.0), Up to 4 x 9-pin D-SUB connectors ³⁾ ,	
Software	Linux Debian, Other operating systems on request	WES 7, Linux Debian, Other operating systems	WES 7, Windows 10 IoT, Linux Debian,
Dimensions in mm (w x h x d)	256.4 x 189.4 x ??	256.4 x 189.4 x ??	
Operating Temperature	-20 °C ... 60 °C	0 °C ... 50 °C	-20 °C ... 50 °C

³ Available with 2 D-SUB: 2 x CAN/CANopen or 1 x RS232/485 & 1 x CAN/CANopen
⁴ D-SUB: additional 2 x RS232/485 or 2 x CAN/CANopen
 More interfaces on request.