

emVIEW-6 series

6.5" Industrial Panel PC Systems based on ARM and X86 Technology



emVIEW-6 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

- 6.5" VGA display size
- LED backlight technology
- Aspect ratio 4:3
- Resolution: 640 x 480
- 256,000 colours
- Viewing Angle: Up to 160 ° (hor.), 140 ° (vert.)
- Luminance: 500 cd/m² (min.), 600:1 (typ.)
- Contrast Ratio: 400:1 (min.), 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
- Internally connected via serial line

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 9 ... 34 V_{DC}

Environment

- Up to -20 °C ... 60 °C ambient operating temperature ¹⁾
- Up to -20 °C ... 75 °C storage temperature ¹⁾
- Humidity 0 ... 80 % @25 °C, non-condensing

Options

- Projective Capacitive Touchscreen (PCT)
- Optical Bonding
- 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 SYTEM DEPENDENT FEATURES for further information

² Please see external datasheet for available expansion boards

SYSTEM DEPENDENT FEATURES

System Type	emVIEW-6T/A/iMX6	emVIEW-6T/X/A-E3825	emVIEW-6T/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⁾ , Serial port with RTS/CTS only	2 x RJ45, 3 x USB (V2.0), Up to 4 x 9-pin D-SUB connectors ³⁾ , Serial port with RTS/CTS only, Reset push button	
Software	Linux Debian, Other operating systems on request	WES 7, Linux Debian, Other operating systems on request	WES 7, Windows 10 IoT, Linux Debian, Other operating systems on request
Dimensions in mm (w x h x d)	193.5 x 158.8 x ??	193.5 x 158.8 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.