

# 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: 600 cd/m<sup>2</sup> (min.), 800 cd/m<sup>2</sup> (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 <sup>1)</sup>

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

#### Power Supply

- Input 9 ... 34 V<sub>DC</sub>

#### Environment

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

#### Options

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

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

<sup>2)</sup> 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
<b>Processor</b>	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)
<b>Memory</b>	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
<b>Storage</b>	Internal CFast Socket, Internal SD card slot	Internal CFast Socket, Externally accessible SD card slot (optional)	
<b>Interfaces</b>	2 x RJ45, 2 x USB (V2.0), Up to 4 x 9-pin D-SUB connectors <sup>3)</sup> , Serial port with RTS/CTS only	2 x RJ45, 3 x USB (V2.0), Up to 4 x 9-pin D-SUB connectors <sup>3)</sup> , Serial port with RTS/CTS only, Reset push button	
<b>Software</b>	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
<b>Dimensions in mm (w x h x d)</b>	193.5 x 158.8 x ??	193.5 x 158.8 x ??	
<b>Operating Temperature</b>	-20 °C ... 60 °C	0 °C ... 50 °C	-20 °C ... 50 °C

<sup>3</sup> Available with 2 D-SUB: 2 x CAN/CANopen or 1 x RS232/485 & 1 x CAN/CANopen

<sup>4</sup> D-SUB: additional 2 x RS232/485 or 2 x CAN/CANopen

More interfaces on request.