janz**tec**
Industrial Computing Architects

emVIEW-iMX6

Panel PC System based on ARM Technology

PRODUCT DESCRIPTION

The emVIEW emPC-A/iMX6 is a self-developed Janz Tec product with an i.MX6 quad-core processor. The standard sizes are available from 6 to 12 inches. Custom hardware configuration and designs are available upon request.

FEATURES

Processor
- NXP i.MX6 quad-core CPU based on ARM ® Cortex ®-A9, 4 x 800 MHZ

Display
- 6.5", 8.4" or 12.1" TFT display [1]
- LED backlight technology
- Aspect ratio 4:3
- Viewing Angle: 178 °
- Luminance: Up to 800 cd/m^2 [1]
- Contrast Ratio: up to 1000:1 [1]
- MTBF of back light: 50,000 h

Touchscreen
- Resistive touchscreen with single touch

Memory
- 2 GB DDR3 RAM system memory
- 128 kB battery-free NVRAM

Storage
- Internal 4 GB eMMC flash
- Internal CFAST Socket for SATA SSD
- Internal SD card slot

External Interfaces
- 2 x 10/100/1000 MBit/s Ethernet
- 2 x USB 2.0
- 1 x DVI-D graphics interface
- Up to 4 x 9-pin D-SUB conncectors for CAN or serial ports [2]
- Serial port with RTS/CTS only

[1] Feature depends on system type. Please see table SYTEM DEPENDENT FEATURES for further information

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

PRODUCT DATASHEET

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Environment

- Ambient operating temperature: -20 °C … 60 °C [1]
- Non-operating temperature range: -20 °C … 75 °C
- Humidity: 5 % … 90 % @ 25 °C, non-condensing [1]
- IP65 front protection, IP20 rear protection

Power Supply

- 14 … 32 V_{DC}

Software

- Debian Linux operating system
- CODESYS

Options

- CAN, RS232, RS485, digital I/O, or further interfaces on request
- Customized front design possible
- Capacitive touch screen (PCT) for multi-touch use - „only for emVIEW-12T"

SYSTEM DEPENDENT FEATURES

System Type	emVIEW-6T/A/iMX6Q	emVIEW-8T/A/iMX6Q	emVIEW-12T/A/iMX6Q
Display size	6.5"	8.4"	12.1"
Display resolution	640 x 480	800 x 600	1024 x 768
Contrast Ratio	1000:1	600:1	1000:1
Luminance	800 cd/m² (typ.)	450 cd/m² (typ.)	600 cd/m² (typ.)
Humidity	5 % … 95 %	5 % … 90 %	5 % … 90 %
Operating Temperature	-20 °C … 60 °C	-20 °C … 60 °C	0 °C … 50 °C
Dimensions in mm (w x h x d)	193.5 X 158.8 X 70	256.4 x 189.4 x 60	320 x 260 x 90
Built-in depth in mm	58	50	80

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