janz**tec**
Industrial Computing Architects

emVIEW-7/RPI3+

7" Panel PC System
based on Raspberry Pi 3

PRODUCT DESCRIPTION

With emVIEW-7/RPI3+ Janz Tec AG provides an HMI which uses an original Raspberry Pi 3 model B+ [1] module inside. This module is mounted on a self-developed mainboard providing a 24 V_{DC} power supply, additional serial interfaces, a real-time clock and digital inputs and outputs. With a 7.0" touch display, this system is ideally suited for low cost applications such as maintenance and easy controlling of machines.

FEATURES

Processor
- Based on Raspberry Pi 3, Model B+
- Quad-Core CPU based on ARM Cortex-A53 with 4 x 1.4 GHz [1] [2]
- Real-time clock, battery buffered

Display
- 7" WVGA display size
- LED backlight technology
- Aspect ratio: 15:9 (Landscape)
- Resolution: 800 x 480
- Luminance: 350 cd/m² (typ.)

Touchscreen
- Projected capacitive touch screen (PCAP) with multi-touch capabilitites
- Glass surface

Memory
- 1 GB DDR2 RAM

Storage
- External accessible µSD card slot

Internal Interfaces
- BCM43455 WiFi/WLAN on Board
- 1 x I/O connector, providing:
    - 1 x CAN (ISO/DIS 11989-2, opto-isolated, term. settings via jumper, SocketCAN supported)
    - 1 x RS232 (Rx, Tx, RTS, CTS) or switchable to RS485 (half-duplex, term. settings via jumper)
    - 4 x digital inputs (24 V_{DC})
    - 4 x digital outputs (24 V_{DC})

1   Also available with a RPI3 model B, with 4 x 1.2 GHz and 1 x 10/100 Mbit/s Ethernet.
2   CPU perfomance will be reduced by software in our standard OS image to 4 x 600 MHz for protecting the system against overheating. Using only 1 core with full 1.4 GHz is also possible, please see hardware manual for more detailed information

PRODUCT DATASHEET

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FEATURES

External Interfaces
- 1 x 10/100/1000 Mbit/s Ethernet
- 4 x USB (V2.0)
- 1 x 9-pin D-SUB connector for serial debug console (RS232 only with RxD and TxD)
- 1 x HDMI graphic interface

Environment
- Ambient operating temperature: 0 °C … 35/45 °C [2]
- Non-operating temperature: -20 °C … 75 °C
- Humidity 5 % ~ 95 %, non-condensing
- Dimension (w x h x d): 203 x 121 x 55 mm
- Weight approx. 0.6 kg
- DIN rail mounting

Power Supply
- Input 9 … 32 V_{DC}
- Power consumption: 7 W

Software
- Raspbian JESSIE light operating system
- CODESYS V3 runtime environment
- CANopen protocol stack and tools

[1] Temperature range depends on mounting situation of the device. Please see hardware manual for more detailed information.

PRODUCT DATASHEET

Customized Solutions Feel free to contact Janz Tec's sales team for special requirements and features:

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