

## HIGHLIGHTS

-  PiXTEND v2 S BOARD
-  LCD 7,0" 800x480 WIDE SCREEN
-  MULTI TOUCH SCREEN
-  RASPBERRY PI 3B+
-  ARM CORTEX A53 / 4x1,4GHZ
-  CE-COMPLIANT
-  FOR INDUSTRIAL APPLICATIONS



RPI-07-XTEND

Update: 02/2021

| Hardware                            | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of device                      | The RPi07-Xtend system contains a steel sheet housing with integrated CPU Raspberry Pi 3B+; a 7" widescreen multitouch display; also the I/O-interface extension board "PiXtend v2-S®" by Qube Solutions representing a small PLC for insertion in front panels, consoles, control cabinet doors or walls                                                                                             |
| Mainboard                           | CPU: ARM Cortex A53 / 4x 1,4GHz<br>Chipset: Broadcom BCM2387<br>WLAN: 802.11 b/g/n<br>Bluetooth: Bluetooth 4.2 (Classic oder LE)<br>Ethernet: 10/100/300 Base T Ethernet socket                                                                                                                                                                                                                       |
| Interfaces external                 | Serial: 4x USB2.0<br>Network: 1x LAN 10/100 Mbps Ethernet<br>Audio: 1x Line out                                                                                                                                                                                                                                                                                                                       |
| Interfaces Raspberry Pi internal    | Types: Audio, HDMI, CSI Camera Interface                                                                                                                                                                                                                                                                                                                                                              |
| I/Os and interfaces of PiXtend v2 S | 8x digital inputs 3,3 / 5 / 12 / 24 V<br>4x digital outputs 5 / 12 / 24 V, 0,5 A each<br>4x PWM- / Servo outputs<br>4x relays, max. 230 V / 6 A<br>2x analog voltage inputs 0..5 V / 0..10 V<br>2x analog voltage outputs 0..10 V<br>1x RS232 interface<br>Real time clock (RTC) with buffering by battery<br>Support of max. 4x GPIO's: DHT11 / DHT22 / AM2302 temperature- and air moisture sensors |
| Main memory                         | RAM: 1GB LPDDR2                                                                                                                                                                                                                                                                                                                                                                                       |
| Mass memory                         | Micro-SD: 16GB SDHC class10                                                                                                                                                                                                                                                                                                                                                                           |
| Display                             | LCD: 7,0"; 300 cd/m²; 800x480 pixel, contrast 1300:1                                                                                                                                                                                                                                                                                                                                                  |
| Touch screen                        | Type: Multitouch, max. 10 fingers                                                                                                                                                                                                                                                                                                                                                                     |
| Power                               | Input: 12 to 24 V (max. 30 V)                                                                                                                                                                                                                                                                                                                                                                         |

| Software          | Description                                        |
|-------------------|----------------------------------------------------|
| Operation systems | Raspbian, Windows 10 IoT Core; others on request.  |
| Software Support  | Codesys, Linux, FHEM, Python, Node-RED and OpenPLC |

| Mechanics                   | Dimensions: W x H x D |
|-----------------------------|-----------------------|
| Housing                     | 200 x 118 x xxx mm    |
| Front panel cutout diameter | 192 x 108 mm +/- 1 mm |
| Weight                      | ca. 1,1 kg            |

| Options               | Description                                                                    |
|-----------------------|--------------------------------------------------------------------------------|
| Attachment / Mounting | Clamps for mounting in front panels, consoles, control cabinet doors or walls. |

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