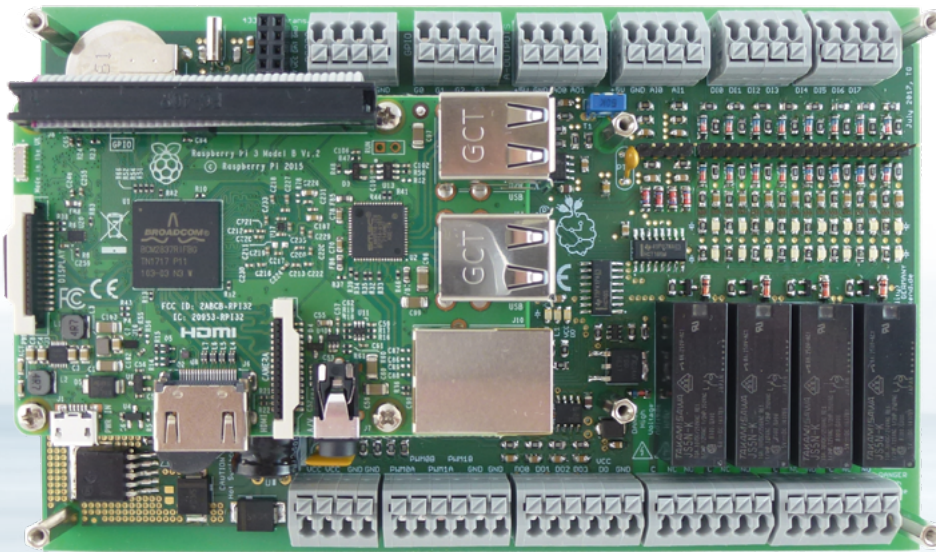


# PiXtend® V2 -S-



## PiXtend® V2 - fast, reliable and connection friendly

- ▶ Retain memory protects key data against power failure
- ▶ Industrial outputs, HighSide switches with separate feed and all-round protection
- ▶ Control and regulate short cycle times, 2.5 ms at 400 Hz
- ▶ Use Node-RED to turn PiXtend V2 into an edge device and graphically link and configure data flows

POSSIBILITIES START HERE

# PiXtend® V2 -S-

PiXtend is a programmable logic controller based on the high-performing Raspberry Pi single-board computer. Its broad array of digital and analog inputs and outputs lets you connect virtually any sensor or actuator from the industry or maker sector. Other devices, controllers and computer system are easily connected via serial standard interfaces (RS232, Ethernet and WiFi). All these robust interfaces comply with the SPS standard (IEC 61131-2).

CODESYS V3 and PiXtend® let you memory-program controls using the globally recognized IEC 61131-3 standard for PLC programming languages. An integrated CODESYS web visualization tool is available for displaying your control elements, diagrams and graphics on your smartphone, tablet or PC. Remote access via the Internet has never been easier!

## CLIENT BENEFITS

- ▶ Easy design-in thanks to connection planner, 3D models and detailed manuals
- ▶ Quad PWM for actuating drives and model servos, without costly add-on modules
- ▶ Perfect connections, high-grade clamps, optional plug-in version

## APPLICATIONS

- ▶ Mechanical engineering controller
- ▶ Plant engineering controller

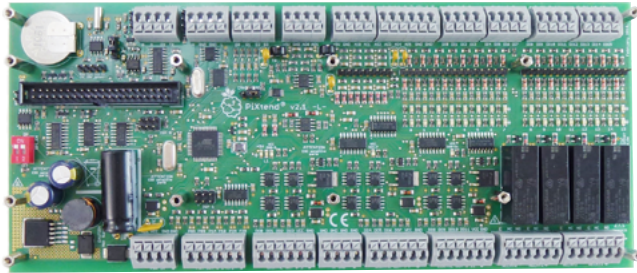
## ▶ TECHNICAL INFORMATION

FUNCTION		PiXtend® V2 -S-
<b>HARDWARE</b>	<b>POWER SUPPLY</b> <b>RETAIN-/REMANENCE MEMORY</b> <b>REAL TIME CLOCK (RTC)</b> <b>TEMPERATURE- AND AIR HUMIDITY SENSORS</b> <b>RS232</b> <b>RS485</b> <b>DIGITAL INPUTS(DI)</b> <b>DIGITAL OUTPUTS (DO)</b> <b>ANALOG VOLTAGE INPUTS (AI-U)</b> <b>ANALOG OUTPUTS (AO)</b> <b>RELAIS</b> <b>PWM-/SERVO OUTPUTS</b> <b>GPIO</b> <b>INTERFACES AND I/Os</b>  <b>MAX. TEMPERATURE RANGE</b> <b>DIMENSIONS - WITHOUT HOUSING</b> <b>TOP HAT RAIL HOUSING</b> <b>SUPPORTED RPI MODELS</b>	24 V DC ±20 % 32 Bytes Flash EEPROM with battery buffering Up to 4 DHT11, DHT22, AM2302  1x Via USB-Dongle 8x 3.3/5/12/24 V 4x PNP 5/12/24 V, 0,5 A 2x 0...5 V, 0...10 V, 10 Bit 2x 0...10 V, 10 Bit 4x, max. 230 V/6 A 2x, 16 Bit, 2x 8 Bit resolution, 5 V 4x 5 V GPIO Short circuit proof, supply with reverse polarity and overload protection (self-resetting safety device) 0 °C...+50 °C 166.3 x 101.8 x 27 mm Aluminium 1 B+, 2 B, 3 B, 3 B+, 4 B (Extension Board & Basic)
<b>SOFTWARE</b>	<b>SHORT CYCLE TIMES</b> <b>SUPPORT FOR</b>	2.5 ms (400 Hz) CODESYS V3, C- und Phyton Library, FHEM, Node-RED

\* RS232 and RS485 cannot be operated simultaneously

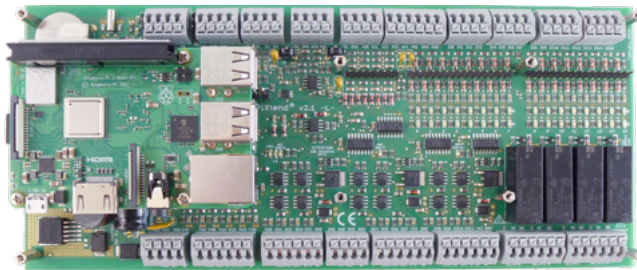
\*\* CAN interfaces and analog outputs cannot be used together

## ▶ V2 -S- EXTENSION BOARD



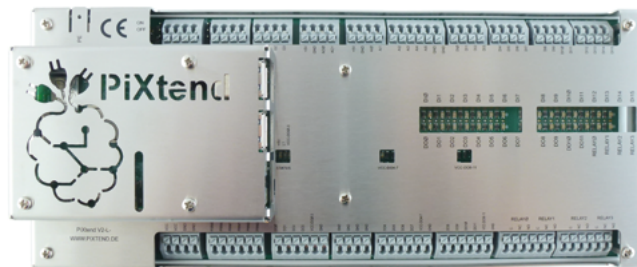
- ▶ Without Raspberry Pi
- ▶ Connect to RPI and go!
- ▶ Item no.: 50199 004

## ▶ V2 -S- ePLC® BASIC



- ▶ Board basic version
  - ▶ Includes Raspberry Pi
  - ▶ Open version
  - ▶ Preinstalled SD card
- Basis Image - Item no.: 50199 005  
CODESYS Image - Item no.: 50199 013

## ▶ V2 -S- ePLC® PRO



- ▶ Complete device - Pro
  - ▶ Includes Raspberry Pi
  - ▶ Top hat rail housing
  - ▶ Brushed stainless steel cover
  - ▶ Preinstalled SD card
- Basis Image - Item no.: 50199 006  
CODESYS Image - Item no.: 50199 014

## ▶ YOUR CONTACT

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