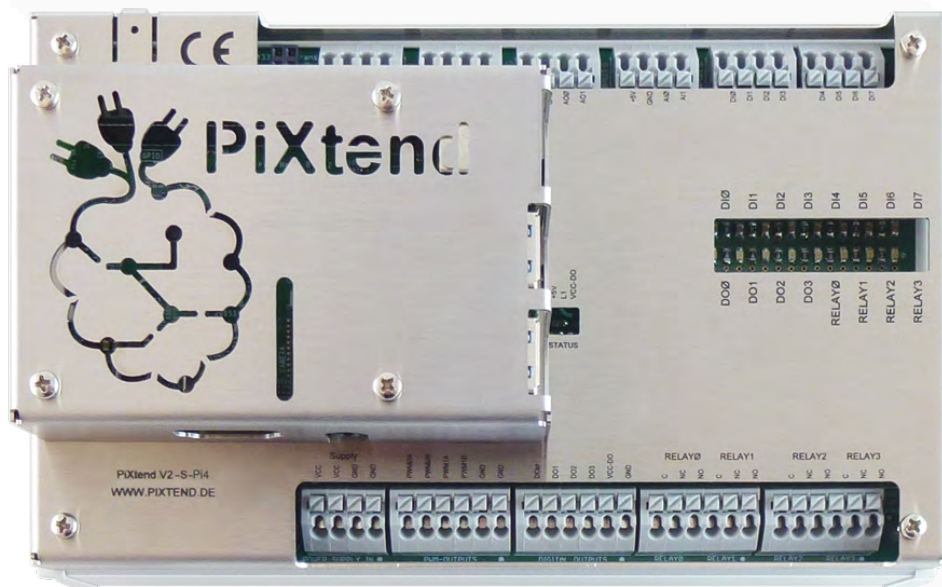


PiXtend® V2 -S- Pi 4 & Puxtend® V2 -S- Raspberry Pi



Fast, reliable and connection friendly

- Retain memory for data back up
- Industrial outputs, High-Side switches with separate feed and all-round protection
- Use Node-RED to turn PiXtend® V2 into an edge device, data flows can be linked graphically and configured as required
- PiXtend® V2 Pi 4 housing with passive heat sink

FUNCTION	PiXtend® V2 -S- Pi 4	PiXtend® V2 -S-
CPU	Broadcom BCM 2711, Raspberry Pi 4 Model B	Broadcom BCM 2837B0, Raspberry Pi 3 Model B+
POWER SUPPLY	24 V DC ±20 %	24 V DC ±20 %
RETAIN-/REMANENCE MEMORY	32 Bytes Flash EEPROM	32 Bytes Flash EEPROM
REAL TIME CLOCK (RTC)	With battery buffering	With battery buffering
TEMPERATURE- AND AIR HUMIDITY SENSORS	bis zu vier DHT11, DHT22, AM2302	bis zu vier DHT11, DHT22, AM2302
RS232	1x	1x
RS485	Via USB-Dongle	Via USB-Dongle
DIGITAL INPUTS (DI)	8x 3,3 / 5 / 12 / 24 V	8x 3,3 / 5 / 12 / 24 V
DIGITAL OUTPUTS (DO)	4x PNP 5 / 12 / 24 V, 0,5 A	4x PNP 5 / 12 / 24 V, 0,5 A
ANALOG VOLTAGE INPUTS (AI-U)	2x 0...5 V, 0...10 V, 10 Bit	2x 0...5 V, 0...10 V, 10 Bit
ANALOG VOLTAGE OUTPUTS (AO)	2x 0...10 V, 10 Bit	2x 0...10 V, 10 Bit
RELAIS	4x, max. 230 V / 6 A	4x, max. 230 V / 6 A
PWM-/SERVO OUTPUTS	2x 16 Bit, 2x 8 Bit resolution, 5 V	2x 16 Bit, 2x 8 Bit resolution, 5 V
GPIO	4x 5 V GPIO	4x 5 V GPIO
INTERFACES AND I/Os	Short circuit proof, supply with reverse polarity and overload protection (self-resetting safety device)	Short circuit proof, supply with reverse polarity and overload protection (self-resetting safety device)
MAX. TEMPERATURE RANGE	0 °C...50 °C	0 °C...50 °C
DIMENSION – WITHOUT HOUSING	166,3 x 101,8 x 27 mm	166,3 x 101,8 x 27 mm
TOP HAT RAIL HOUSING	Aluminium	Aluminium
SUPPORTED RPI MODELS	1 B+, 2 B, 3 B, 3 B+, 4 B	1 B+, 2 B, 3 B, 3 B+, 4 B

PiXtend® V2 can be programmed with the following Languages

- CODESYS® V3 – Professional programming system for PLC programming according to IEC 61131-3
- C – Linux programming standard
- Python – Script language on the Raspberry Pi
- FHEM – Open source home automation system, control homes via web or app
- Node-RED – Graphical flow programming for the IoT age

Product Highlights

PiXtend® is a programmable logic controller based on the high-performing Raspberry Pi single-board computer. It is available in two variants, with the RPi 3 B+ Broadcom BCM 2837B0 and new with the RPi 4 B Broadcom BCM2711, the most powerful processor of the Raspberry Pi Foundation.

The modules can be expanded with the PiXtend® eIO, an I/O system for digital and analog sensors and actuators that can be connected via Modbus. Other devices, controllers and computer system are

easily connected via serial standard interfaces (RS232, Ethernet and WiFi). All these robust interfaces comply with the PLC standard (IEC 61131-2).

The PiXtend® controller can be programmed in common programming languages such as C or Python and is suitable for use with the CODESYS® SoftPLC. An integrated CODESYS® web visualization tool is available for displaying your control elements, diagrams and graphics on tablet or PC.

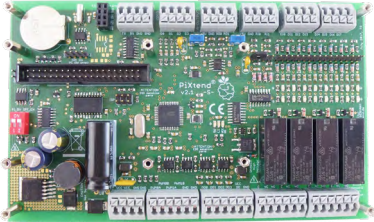
Client Benefits

- 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

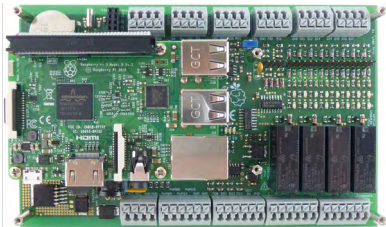
- Mechanical engineering controller
- Plant engineering controller

PRODUCT NAME	ARTICLE NO.	OPTIONS
PiXtend® V2 -S- EXTENSION BOARD	50199 004	Without Raspberry Pi



PiXtend® V2 -S- ePLC® Basic & Basic Pi 4

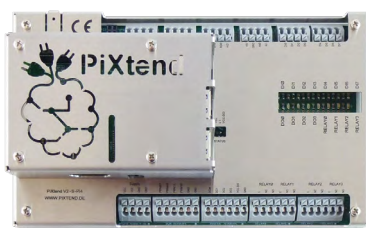
PRODUCT NAME	ARTICLE NO.	OPTIONS
PiXtend® V2 -S- ePLC® Basic Pi 4	50199 020	Preinstalled SD-Card, Basis Image
PiXtend® V2 -S- ePLC® Basic Pi 4	50199 021	CODESYS® Image
PiXtend® V2 -S- ePLC® Basic	50199 005	Preinstalled SD-Card, Basis Image
PiXtend® V2 -S- ePLC® Basic	50199 013	CODESYS® Image



- › Board basic version
- › Open version
- › Product with Raspberry Pi 4 B or product with Raspberry Pi 3 B+

PiXtend® V2 -S- ePLC® Pro & Pro Pi 4

PRODUCT NAME	ARTICLE NO.	OPTIONS
PiXtend® V2 -S- ePLC® Pro Pi 4	50199 024	Preinstalled SD-Card, Basis Image
PiXtend® V2 -S- ePLC® Pro Pi 4	50199 025	CODESYS® Image
PiXtend® V2 -S- ePLC® Pro	50199 005	Preinstalled SD-Card, Basis Image
PiXtend® V2 -S- ePLC® Pro	50199 013	CODESYS® Image



- › Complete device Pro
- › Top hat rail housing
- › Brushed stainless steel
- › Product with Raspberry Pi 4 B or Product with Raspberry Pi 3 B+

