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We point out that all used brand names refer to the general brand, trademark or patent protection of the respective company or facility. Subject to change.



# Pi-Tron based on Raspberry Pi

- Solution for Industrial Products

As Raspberry Pi Design Partner we support you with our expertise in the development of new Raspberry Pi product designs.

- > State of the art computing power
- ➤ Industrial-use interfaces, customizable

#### **BL Pi-Tron CM5**

- ➤ Broadcom BCM2712 4x Arm® Cortex®-A76 @2.4 GHz
- > 2 GB up to 8 GB LPDDR4-RAM
- ➤ Optional WLAN/Bluetooth
- Available until 2036

## AL Pi-Tron CM5

- > FRAM. 2x USB 2.0 Host. RS232, RS485, CAN, 4x DIO, WLAN/Bluetooth
- Stainless steel housing 111 x 25 x 76 mm for mounting on 35 mm mounting rail

### BL Pi-Tron CM4

- > 4x Arm<sup>®</sup> Cortex<sup>®</sup>-A72 @1.5 GHz
- ▶ 1 GB RAM up to 8 GB LPDDR4-RAM
- ➤ Optional WLAN/Bluetooth®
- ➤ Suitable for CODESYS® SoftPLC Available until 2034

- > WLAN/Bluetooth® connectivity
- > Residential and industrial applications

### AL Pi-Tron CM4

- > 2x USB 2.0 Host, 2x LAN, RS232. RS485, CAN FD, 4x DIO
- > Stainless steel housing 111 x 25 x 76 mm for mounting on 35 mm mounting rail

# DL 7" Pi-Tron CM4

- > Broadcom BCM2711, 4x Arm® Cortex®-A72 @1.5 GHz
- > 3D Video Engine
- **>** 7" IPS-Display, 1024 x 600 Pixel 450 cd/m<sup>2</sup>
- > Aluminium Front, PCAP Multitouch

# AL Pi-Tron CM3+

- > 2x USB 2.0 Host, 2x LAN, RS232. RS485, CAN, 4x DIO
- > Stainless steel housing 111 x 25 x 76 mm for mounting on 35 mm mounting rail

# PiXtend®

# - First choice for Industrial Projects

- ▶ PiXtend® controllers and PiXtend® eIO modules reduce your time-to-market
- > Based on a single-board computer from the Raspberry Pi Foundation Pi4 or 3B+

# PiXtend® V2-L- Pi 4 & PiXtend® V2-L-

- Brushed stainless steel DIN rail housing
- ▶ 16x DI. 12x DO. 6x AI. 2x AO. 4x Relais, 6x PWM, 4x GPIO
- > Retain memory 64 Byte Flash **FFPROM**
- ➤ Suitable for CODESYS® SoftPLC

# PiXtend® V2-S- Pi 4 & PiXtend® V2-S-

- ▶ Brushed stainless steel DIN rail housing
- > 8x DI. 4x DO. 2x Al. 2x AO. 4x Relais, 4x PWM, 4x GPIO
- > Retain memory 32 Byte Flash EEPROM
- ➤ Suitable for CODESYS® SoftPLC

# C or Python ➤ Suitable for CODESYS® SoftPLC

> Programmable in common

programming languages such as

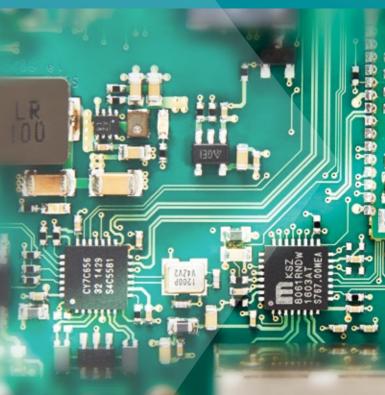
# PiXtend® elO Digital One Pro

- **>** 8x 3.3 / 5 / 12 / 24 V, digital input including counter function
- **>** 8x 0,5 A, 5 / 12 / 24 V, digital output
- > Fast digital logic "HyperLogic"

# PiXtend® elO Analog One Pro

- **)** 4x 0...5 V / 0...10 V, analog 10-Bit voltage inputs (AI-U)
- → 4x 0...10 V, analog 12-Bit voltage outputs (AO-U)
- > 2x 0...20 mA, analog 12-Bit current outputs (AO-I)
- > 4x 0...20 mA, analog 10-Bit current inputs (AI-I)

# We IoT-ize your Business





# System-on-Module

- OSM-S Family



- > Directly soldered without plug connectors
- > Fully automated assembly and test
- Manufacturer independent
- > Future proof open standard





**CPU-Boards** 

> Fast time to market

# Automation-Line

- Proven & Robust



- > CODESYS® ready
- > Flexible interfaces
- > Easy adaptation to costumerspecific requirements
- Compact, fanless all-in-one solution

■ i.MX6 ULL 1x Arm® Cortex®-A7

4 GB eMMC, microSD-Card Slot

111 x 25 x 76 mm for mounting on

> 512 MB RAM, 512 MB NAND.

> Stainless steel housing

35 mm mounting rail

@800 MHz

> 24 V Input

## Secure & Connected



AL i.MX8M Mini & Plus & LTE AL i.MX6 ULL

← KontronOS & ← K-PORT



Software

From the idea to the development of a product ready for the market - our

team is there to support you. Many years of development experience and



Mechanics

**Product** 

Industrialization

# **Production**

Hardware

- We are your Partner

Electronics<sup>2</sup>

Your Ideas are our Motivation

know-how guarantee your success.

Development

As an experienced electronics services provider, we do far more than just production and assembly.



Manufacturing Expertise



Test & Ouality







**Final Assembly** 



Services

# OSM-S i.MX8M Plus

- GPU and NPU M4, GPU

  - ➤ CODESYS® SoftPLC support

## OSM-S i.MX93

> 2x Arm® Cortex®-A55. M33. microNPU

> 2x 1 Gbit/s (1x with TSN).

2x USB 3.0. 2x CAN FD

➤ CODESYS® SoftPLC support

➤ MIPI DSI, LVDS, HDMI, 2x MIPI CSI

- > 2x 1 Gbit/s (1x with TSN), 2x USB 2.0 OTG, 2x CAN FD
- MIDI DSI, LVDS, 1x MIPI CSI

## OSM-S i.MX8M Mini

- > 4x Arm® Cortex®-A53.

# **BL i.MX8M Plus**

▶ 1 – 4 GB RAM. 8 – 64 GB eMMC. microSD-Card Slot

▶ Reduced development effort

> Scalable computing power

- Efficient & Independent Platform

- > 2x USB 2.0, 2x GBE, RS232, RS485, CAN, 4x DIO
- ➤ HDMI, LVDS, CSI, I<sup>2</sup>C/USB Touch
- ➤ Suitable for CODESYS® SoftPLC

#### **BL i.MX8M Mini**

- ▶ 1 4 GB RAM. 8 64 GB eMMC. microSD-Card Slot
- > 2x USB 2.0 Host, 1x Gbit/s, 1x 10/100 Mbit/s. RS232. RS485. CAN. 4x DIO
- ➤ HDMI, LVDS, I<sup>2</sup>C/USB Touch
- ➤ Suitable for CODESYS® SoftPLC

# **BLi.MX6 ULL**

Industrial connectors/

> Wide range of applications

> 2x USB 2.0 Host, 1x USB 2.0

> LVDS, MIPI CSI, I<sup>2</sup>C/USB Touch

➤ Suitable for CODESYS® SoftPLC

1 − 2 GB RAM, 4 − 64 GB eMMC, NPU

Typ-C UFP, 2x GBE, RS232, RS485,

24 V DC Input

microSD-Card Slot

CAN FD. 4x DIO

BL i.MX93

- > 512 MB RAM, 512 MB NAND. 4 GB eMMC. microSD-Card Slot
- > 2x USB 2.0 Host, 2x 10/100 Mbit/s, RS232, RS485, CAN, 2x DIO, 2x AIN
- > RGB. I<sup>2</sup>C/USB Touch
- ➤ Suitable for CODESYS® SoftPLC

The SoM in combination with the Linux BSP and a complete development environment, offers an immediately deployable system which can be used for various applications. Develop your own baseboard based on the SoM module. Gladly we develop the baseboard together with you or take over the complete development process.

# 35 mm mounting rail

> Stainless steel housing

> 4x Arm® Cortex®-A53.

Cortex®-M4 (Mini)

> 4x Arm® Cortex®-A53.

> 4x Arm® Cortex®-A53

microSD-Card Slot

Cortex®-M7. GPU. NPU (Plus)

Cortex®-M4, GPU, LTE (LTE)

▶ 1 – 4 GB RAM. 8 – 64 GB eMMC.

111 x 25 x 76 mm for mounting on

# Display-Line - Multitouch Panel

#### DL 7" i.MX8M Mini

- > 4x Arm® Cortex®-A53, Cortex®-M4
- 1 − 4 GB RAM. 8 − 64 GB eMMC. microSD-Card Slot
- → 7" IPS-Display, 1024 x 600 Pixel, 450 cd/m<sup>2</sup>
- ➤ Aluminium Front, PCAP Multitouch

#### DL i.MX6 ULL

■ i.MX6 ULL 1x Arm® Cortex®-A7 @800 MHz

➤ High-quality visualization

> Scalable from low-power

to high-performance

> Long-term availability

> Various customization options

- > 512 MB RAM, 512 MB NAND. 4 GB eMMC, microSD-Card Slot
- ➤ Glass front, frameless IP65, 5" TFT-Display
- PCAP Multitouch

- ➤ 1x 1 Gbit/s
- ➤ MIPI DSI. 1x MIPI CSI

# System-on-Module

# - Powerful & Compact

- ➤ Short development cycle
- Reduced engineering risks
- ➤ EMC tested
- ➤ Long-term availability of CPU module

# SL i.MX6 ULL/UL

- i.MX6 ULL 1x Arm® Cortex®-A7 @800 MHz
- ➤ i.MX6 UltraLite 1x Arm® Cortex®-A7 @528 MHz
- > 2x 10/100 Mbit/s. 1x PHY included, 2x CAN 2.0 B
- ➤ CODESYS® SoftPLC support



# **SL STM32 MP157**

- > 2x Arm® Cortex®-A7
- > 1x Arm<sup>®</sup> Cortex<sup>®</sup>-M4 @200 MHz > 1x 10/100 Mbit/s.
- 1x PHY included, 1x CAN FD
- MIPI DSI, RGB 24 Bit