



AL - ONE CHASSIS - MANY CPU OPTIONS



Automation line

ULTRA-COMPACT TOP-HAT RAIL LINUX COMPUTER

The Internet of Things (IoT) requires ever smaller but nevertheless high-performing controller solutions. Off-the-shelf product with must-haves included: Flexible interfaces for a wide range of communication options and plenty of expansion choices.

The unique aspect of the Automation Line: It provides an impressive array of processor variants in the same top-hat rail-type chassis. Features include I/O ports with industry-standard cage-clamp plugs, 24V DC power supply and a CAN bus expansion interface. You get a cost-optimized top-hat rail computer with guaranteed long-term availability, specially tailored to your automation and IoT solutions.

Do you require additional inputs or outputs to run your solution? Our top-hat rail computers can easily be expanded via our multi-function I/O module, with communication via a CAN interface. This gives you a versatile, compact end2end solution.

FEATURES

- ▶ Kompakter Box-PC
- ▶ Embedded Linux operating system
- ▶ Wide range of interfaces
- ▶ Robust chassis

CLIENT BENEFITS

- ▶ Small, compact design
- ▶ Flexible top-hat rail assembly
- ▶ Optional expansion via multifunctional I/O module
- ▶ Excellent price/performance ratio

APPLICATIONS

- ▶ Automation
- ▶ IoT Gateways
- ▶ Edge Computing
- ▶ Communication
- ▶ Mechanical Engineering

TECHNICAL DATA

FUNCTION			
MICROPROZESSOR			
CPU	i.MX6 ULL 1x Arm® Cortex®-A7 @800MHz	i.MX6 Dual 2x Arm® Cortex®-A9 @800MHz	PiTron CM3+ 4x Arm® Cortex®-A53 @1.2GHz
MEMORY			
DDR3-RAM	512 MB	2 GB	-
LPDDR2-RAM	-	-	1 GB
eMMC	4 GB	4 GB	8 GB, 32GB or SD-Card*
SD-Card	1x micro SD-Slot	1x micro SD-Slot	1x micro SD-Slot or eMMC*
COMMUNICATION			
Ethernet	2x 10/100 Mbit/s		
USB	2x 2.0 Host, 1x 2.0 OTG	2x 2.0 Host, 1x 2.0 OTG	2x 2.0 Host
Serial	1x RS232, 1x RS485		
CAN	1x CAN 2.0		
DIO	4x DOUT (24V/up to 800mA)		
AIO	2x AIN (0...24V)	-	-
Display	-	1x HDMI	1x micro HDMI
OTHER			
Power supply	24V DC ±20%		
Form factor	Stainless steel housing 111 x 25 x 76 mm for mounting on 35mm mounting rail acc. to EN 60715		
Temperatur range	0°C...55°C		
Protection class	IP20		
Approvals	-	-	FCC and UL61010, CB report
SOFTWARE			
Bootloader	U-Boot		-
Operating system	Embedded Linux (Yocto Distribution)		Raspbian Linux
PRODUCT VARIANTS			
Article number	AL i.MX6 ULL 512MB/512MB	AL i.MX6 Dual 2GB/4GB	AL Pi-Tron CM3+ lite 1GB/ micro SD-Slot
	AL i.MX6 ULL 512MB/512MB CODESYS+Webvisu		AL Pi-Tron CM3+ 1GB/8GB eMMC
			AL Pi-Tron CM3+ 1GB/32GB eMMC

* Versions with eMMC memory do not feature an SD card slot



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