kontron
S&T Group

AL i.MX6 SOM ULL 512/512

Automation-Line

VERY COMPACT LINUX PC FOR THE TOP HAT RAIL

The Internet of Things (IoT) demands ever smaller, higher-powered controller solutions as a standard off-the-shelf product. And flexible interfaces for various communication channels and expansion options should not be missing.

With the i.MX6 ULL processor you will get a very powerful application processor, which next to a Arm® Cortex®-A7-Core and a clock frequency of 800 MHz offers various interfaces and connection possibilities. The I/O connections are designed in industrial connectors with spring-type terminals, as also the 24V DC power supply and the CAN bus expansion interface.

Thus, you can rely on a long-term available CPU with optimized costs for your specific automation and IoT solutions. And if additional inputs and outputs are required for control solutions, you can simply expand the module CPU via the CAN interface with our multifunction I/O modules. In this way you get a complete solution from a single source in the same compact design.

FEATURES

▶ Compact Box PC

▶ Embedded Linux operating system

▶ Various interfaces

▶ Robust housing

CLIENT BENEFITS

▶ Small, compact design

▶ Flexible mounting on DIN rail or as Open Frame

▶ Expandable with I/O modules

▶ Excellent price-performance ratio

APPLICATIONS

▶ Automation

▶ IoT Gateways

▶ Edge computing

▶ Communication

▶ Mechanical engineering

FUNCTION	STANDARD	OPTIONAL
MICROPROCESSOR		
CPU	i.MX6 ULL Arm® Cortex®-A7 @800 MHz	also available with i.MX6 Solo, Dual or UL
MEMORY		
NOR-FLASH	1 MB	
NAND-FLASH	512 MB	
DDR3-RAM	512 MB	
eMMC	4 GB	
SD-Card	1x micro-SD	
NVRAM	8 kB	
COMMUNICATION		
Ethernet	2x 100Mbit/s	
USB	2x USB 2.0 Host, 1x USB OTG	
Serial	1x RS232 + 1x RS485	
CAN	1x CAN 2.0 B	
DIO	2x digital IO (24V/0,8A)	
AIO	2x analog IN (0...24V)	
OTHER		
Power supply	24V DC ±20%	
Buffering for RTC	Battery CR1220	
Form factor	105.5 x 67mm [4.3"]	Stainless steel housing 111 x 25 x 76 mm for mounting on 35mm mounting rail acc. to EN 60715
Temperature range	0...55°C	
Protection class	IP00	IP20
SOFTWARE		
Bootloader	U-Boot	
Operating system	Embedded Linux (Yocto Distribution)	