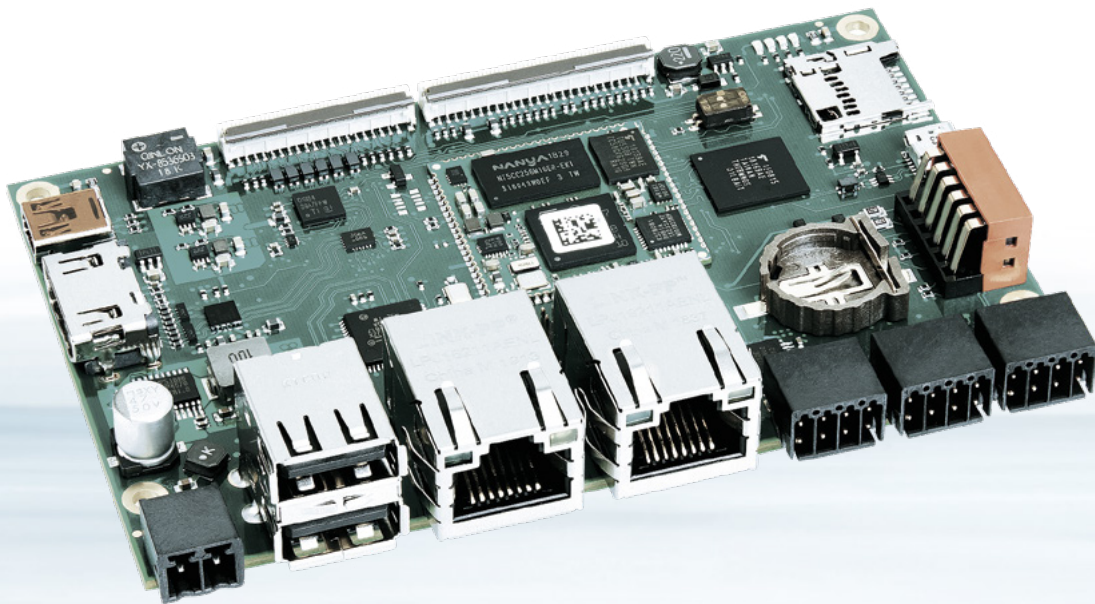


BL STM32MP157

Already placed on a handy Baseboard



Triple Processor power for your Project or Proof of Concept!

- ▶ 2x Arm® Cortex®-A7 Core and Arm® Cortex®-M4 combined together
- ▶ 3D GPU
- ▶ 4,3" form factor
- ▶ Scalable memory expansion
- ▶ Pre-installed embedded Linux operating system incl. all drivers for communication and LCD/touch interfaces

POSSIBILITIES START HERE

BL STM32MP157

The System on Module (SoM) from Kontron Electronics is already placed on a handy Baseboard. It offers concentrated computing power for visualization, Internet communication and demanding control tasks in machine and device construction.

Three processor cores in one housing provide the right solution for every task. Based on the Linux operating system, the Arm® Cortex®-A7 Dual Core part handles all complex visualization tasks, including the display of web content. Display interfaces such as RGB and DSI are already available. With the Arm® Cortex®-M4

processor, the STM32MP157A features proven microcontroller technology with a variety of peripheral interfaces. This board thus offers an excellent solution for implementing very compact, cost effective high-performance touch HMIs or machine controls. Support of the common radio technologies required for the IoT is a matter of course.

Whether you want to develop your own baseboard or we can do it for you: In any case, the baseboard BL STM32MP157 is the excellent basis for a fast project start and for your project success.

CLIENT BENEFITS

- ▶ Communication and Realtime in one intelligent package
- ▶ Quick and easy realization of complex processor solutions
- ▶ Low-cost solutions using simple baseboards
- ▶ Wide range of communication interfaces

APPLICATIONS

- ▶ Control
- ▶ Communication
- ▶ Visualization
- ▶ HMI/MMI
- ▶ IoT/Industry 4.0

▶ TECHNICAL DATA

FUNCTION		STANDARD	OPTIONS
MICROPROCESSOR	CPU	STM32MP157A 2x Arm® Cortex®-A7 @650 MHz, 1x Arm® Cortex®-M4 @200 MHz, 3D GPU	
MEMORY SOM MODULE	DDR3-RAM NAND-FLASH NOR-FLASH	512 MByte 512 MByte 2 MByte	256 MByte 256 MByte
MEMORY SOM BASEBOARD	eMMC SD-CARD	4 GByte 1x micro-SD Slot	128 GByte
COMMUNICATION	ETHERNET USB SERIAL CAN DIO AIO	2x 10/100 Mbit/s 2x 2.0 Host, 1x 2.0 OTG 1x RS232, 1x RS485 1x CAN 2.0 2x DIO (24 V/up to 800 mA) 2x AIN (0...24 V)	
DISPLAY / TOUCH	LCD INTERFACE TOUCH	1x RGB 24 bit, 1x LVDS, 1x HDMI up to 1366 x 768 @60fps I²C, USB	
OTHER	POWER SUPPLY POWER CONSUMPTION TEMPERATURE RANGE OPERATING SYSTEM FORM FACTOR INTERNAL RTC EXTERNAL RTC RTC BUFFERING DEBUG AUDIO SAFETY	24 V DC ±20 % Linux running < 2 W 0 °C .. +70 °C Embedded Linux (Yocto Distribution) 105,5 x 67 mm (4,3") on SoM with Quartz 1x on Baseboard Battery on Baseboard CR1220 1x Console 1x Buzzer TrustZone, AES 256, SHA-256, MD5, HMAC, 3x Tamper Pins with 1 active, Secure RAMs, Secure Peripherals, Secure RTC, Analog true RNG, 98-bit unique ID	

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