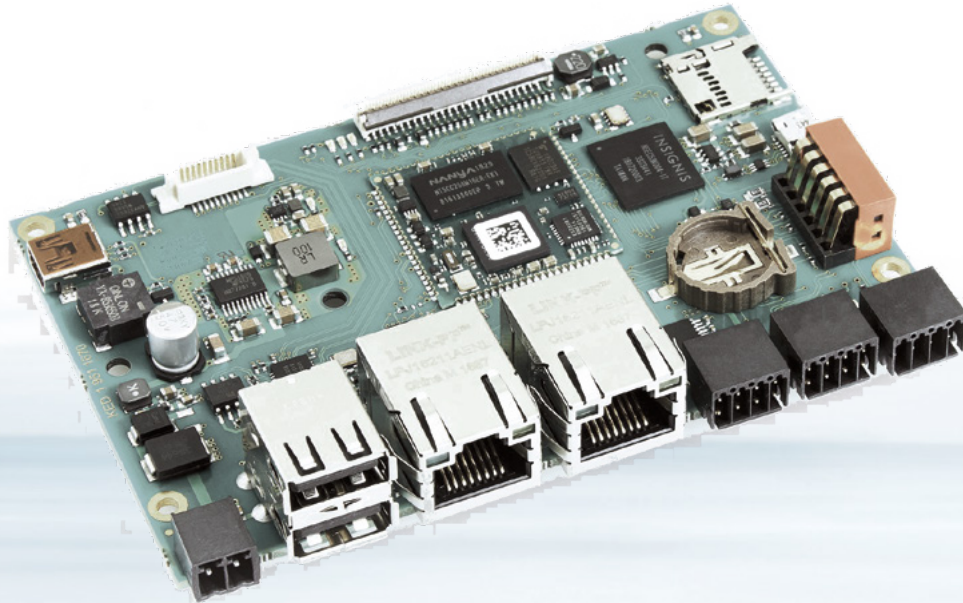# BL i.MX6ULL

▼

Complex Application Processor, as easy to use as a Microcontroller!

▶ Embedded application and control processor
▶ Module featuring with Arm® Cortex®-A7 architectur, RAM and Flash, Ethernet and
   serial interfaces as well as I²C and LCD interface
▶ Pre-installed embedded Linux operating system incl. all drives for
   communication and LCD/touch interfaces

POSSIBILITIES START HERE

kontron
S&T Group

BL i.MX6ULL

The Internet of Things (IoT) requires ever smaller, higher-performing but yet more cost-efficient controller solutions, with maximum demands in terms of computing power, interface variety and driver support. Ever more complex systems have to be developed in ever shorter cycles.

For the price of a microcontroller, the i.MX6 Ultralite processor offers you a high-yield application processor featuring a Arm® Cortex®-A7 core, a clock frequency of 800 MHz and a variably configurable interface landscape.

Get your project started right now with the compact Kontron Electronics SoM pre-installed on the Baseboard. Ready for testing, development or direct use with your application. Keep pace with ever-shorter development cycles while relying on industry-capable solutions and processor modules with guaranteed long-term availability.

CLIENT BENEFITS

▶ Quick and easy realization of complex processor solutions
▶ Low-cost solutions possible using simple Baseboards
▶ Custom add-on functions via expansion plug-ins
▶ No special know-how needed for DDR3 RAM integration
▶ Full Linux toolchain available free of charge
▶ Short Time to Market

APPLICATIONS

▶ IoT/Industry 4.0
▶ Medical technology
▶ Communications
▶ Same processor module for variant-rich Baseboard families
▶ Minimum footprint

▶ TECHNICAL INFORMATION

FUNKTION		STANDARD-BESTÜCKUNG	OPTIONEN
MICROPROCESSOR	CPU	i.MX6ULL 1x Arm® Cortex®-A7 @800 MHz	
MEMORY SoM MODULE	DDR3-RAM NAND-FLASH NOR-FLASH	512 MByte 512 MByte 1 MByte	256 MByte 256 MByte
MEMORY SoM BASEBOARD	eMMC SD-CARD NVSRAM	4 GByte 1x micro-SD Slot 64 kByte	bis zu 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 up to 1366 x 768 @60fps 1x I²C, 1x USB	
OTHER	POWER SUPPLY POWER CONSUMPTION TEMPERATURE RANGE OPERATING SYSTEM FORM FACTOR EXTERNAL RTC RTC-BUFFERING DEBUG EXPANSION PLUGS AUDIO SECURITY	24 V DC ±20 % Linux running <1,5 W 0 °C .. +70 °C Embedded Linux (Yocto Distribution) 105,5 x 67 mm (4,3") 1x on Baseboard Battery on Baseboard CR1220 1x Console 2x USB, 1x I²C 1x Buzzer Secure Boot, RNG, AES-128	1x SPI instead of nvSRAM

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