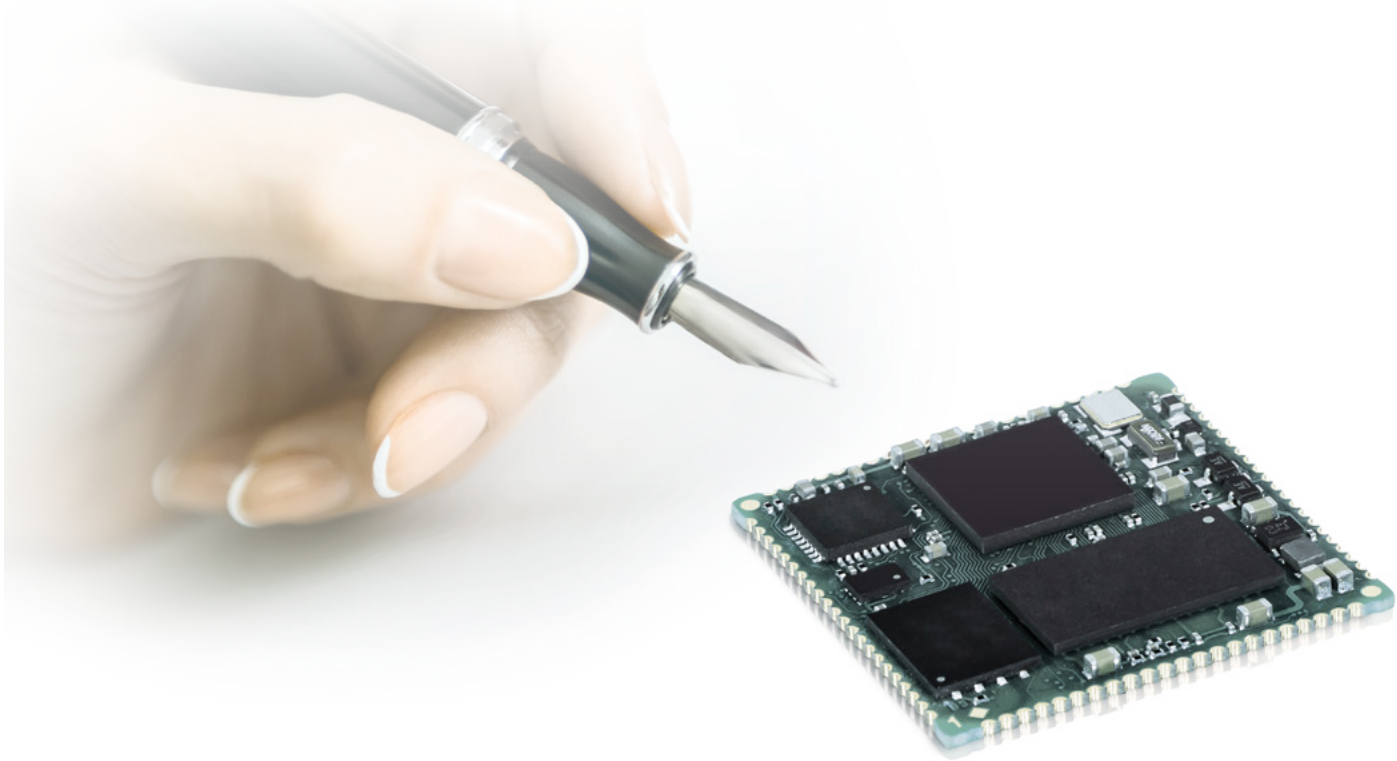


# SL i.MX6ULL/UL

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Computing Power, Communication and Graphics on 25 x 25 mm complex application processor as easy to use as a Microcontroller!

- ▶ Embedded application and control processor
- ▶ Module featuring Arm® Cortex®-A7 architecture, RAM and Flash, Ethernet and serial interfaces, GPIOs as well as I<sup>2</sup>C, SPI and LCD interfaces
- ▶ Pre-installed embedded Linux operating system incl. all drivers for communication and LCD/touch interfaces

POSSIBILITIES START HERE



## SL i.MX6ULL/UL

The Internet of Things (IoT) demands ever smaller, higher-powered but nevertheless cost-efficient controller solutions with high requisites in terms of computing power, interface variety and driver support.

Accordingly, we have added the Ultralite Derivatives series to the lower-price segment of our i.MX6 microprocessor family. For the price of microcontroller, you now get a high-performance

application processor with a Arm® Cortex®-A7 core, 800 MHz pulse frequency and a variable-configuration interface landscape.

Kontron Electronics postage stamp-format SoM lets you combine complex computing performance with low-cost, easy-to-implement Baseboards. In this way you can quickly develop mature, industry-capable solutions while relying on long-term availability of our processor modules.

### CLIENT BENEFITS

- ▶ Quick and easy realization of complex processor solutions
- ▶ Low-cost solutions available as 2-layer Baseboards and higher
- ▶ No special layout know-how needed for DDR3 RAM connectivity
- ▶ Short Time to Market
- ▶ Requires only one voltage supply (3.3 V)

### APPLICATIONS

- ▶ IoT/Industry 4.0
- ▶ Media technology
- ▶ Communications
- ▶ Single processor module for wide range of Baseboard families
- ▶ Minimum-footprint applications

### ▶ TECHNICAL INFORMATION

FUNCTION		STANDARD LAYOUT ULL	STANDARD LAYOUT UL	OPTIONS
MICROPROCESSOR	CPU	i.MX6ULL 1x Arm® Cortex®-A7 @800 MHz	i.MX6UltraLite 1x Arm® Cortex®-A7 @528 MHz	
MEMORY	DDR3-RAM NAND-FLASH NOR-FLASH		512 MByte 512 MByte 1 MByte	256 MByte 256 MByte
COMMUNICATION	ETHERNET USB CAN I/O  SDIO ANALOG		2x 10/100 Mbit/s, 1x PHY included 2x USB 2.0 OTG 1x CAN 2.0 3x UART, 2x I²C, 1x SPI, 16x GPIO, 2x PWM, 2x SDIO, 4 bit 3x ADC	
DISPLAY / TOUCH	LCD INTERFACE		1x RGB 24 bit up to 1366 x 768 @60fps	
OTHER	POWER SUPPLY POWER CONSUMPTION TEMPERATUR RANGE OPERATING SYSTEM FORM FACTOR FOOTPRINT INTERNAL RTC		3.3 V ±5 % max. < 1 W -40 °C ... +85 °C Embedded Linux (Yocto Distribution) 25,5 x 25,5 mm 88 Pin CASTELLATIONS, 38 LGA Pads on SoM with Quartz	
SECURITY		Secure Boot, TRNG, AES-128	Secure Boot, TRNG, Tamper Detection, Secure Storage (including 32 KB Secure RAM), Cryptographics Accelerators (AES-128, DES 3DES, ARC4, MD5, SHA-1, SHA-224, SHA-256, RSA/ECCDSA), Secure Debug, OPT Space	

### Your Contact

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