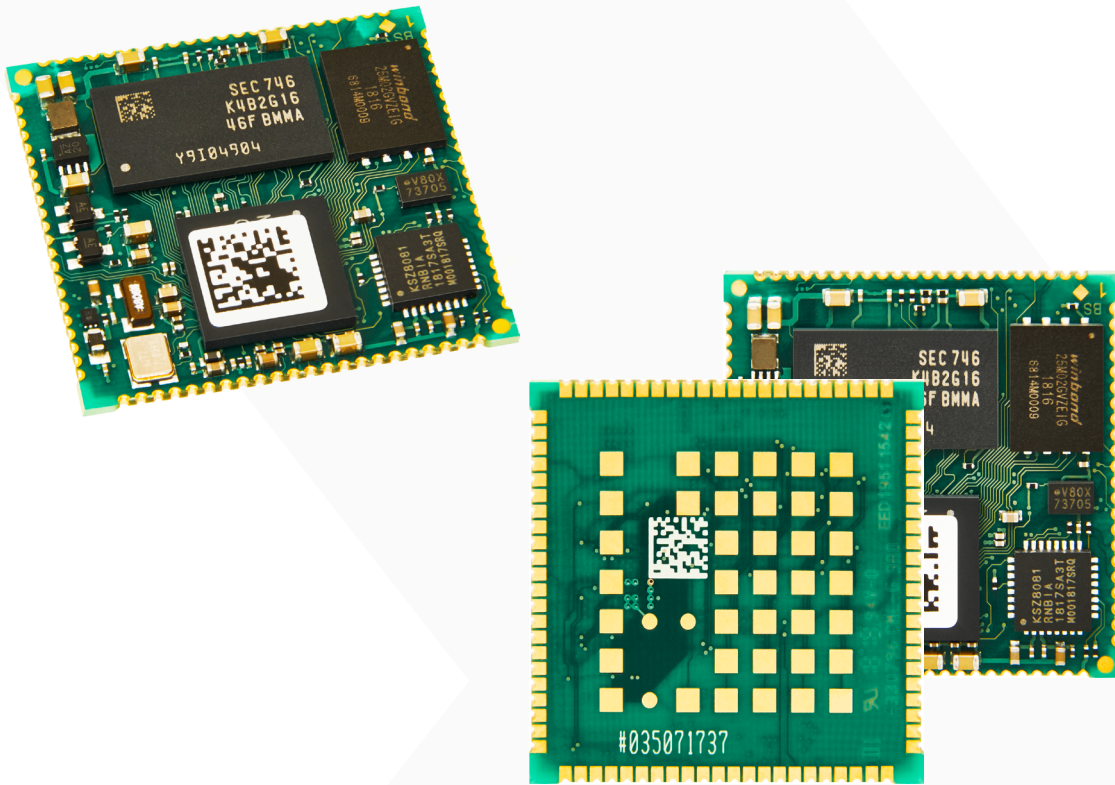


# SL i.MX6ULL/UL

## SoM-Line



## Computing Power, Communication and Graphics on 25 x 25 mm

- NXP i.MX6ULL/UL, Embedded application and control processor
- Module featuring 1x 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, optional with CODESYS® SoftSPS

FUNCTION		STANDARD LAYOUT ULL	STANDARD LAYOUT UL	OPTIONS
MICROPROCESSOR	CPU	NXP i.MX6ULL 1x Arm® Cortex®-A7 @800 MHz	NXP 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 B 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, Linux running < 0.5 W -40 °C ... +85 °C Embedded Linux (Yocto Distribution), optional CODESYS® SoftSPS 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/ ECDSA), Secure Debug, OPT Space	

## Product Highlights

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 improved models of the Ultralite series to the lower-price segment of our i.MX6 microprocessor-family. For the price of a microcontroller, you now get a high-performance application processor with 1x Arm® Cortex®-A7

core, 800 MHz pulse frequency and a variable-configuration interface landscape.

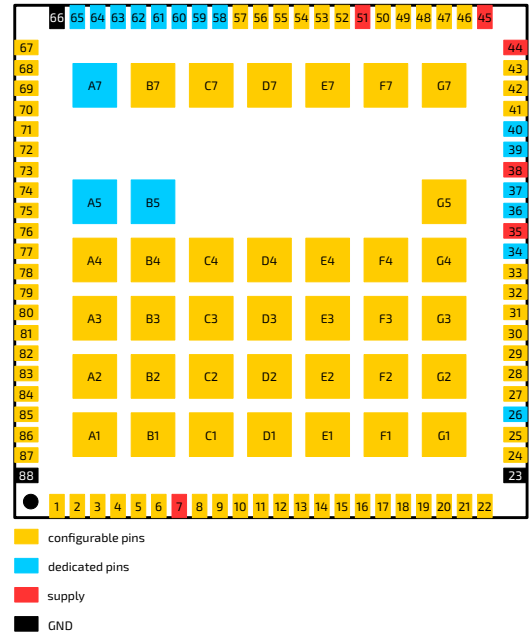
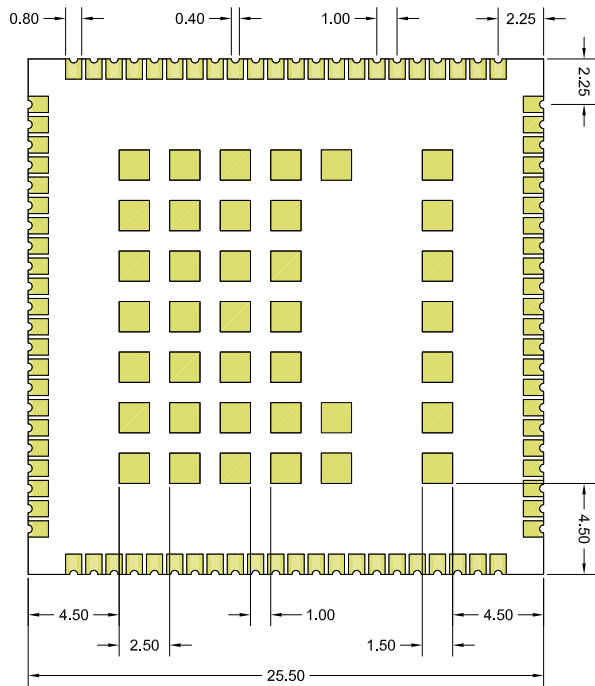
Kontron Electronics' SoM, in the format of a postage stamp, allows you to combine complex computing performance with costeffective, easy-to-implement Baseboards. This enables us to quickly develop mature, industry-standard solutions while you can rely on the long-term availability of our processor modules.

### Client Benefits

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

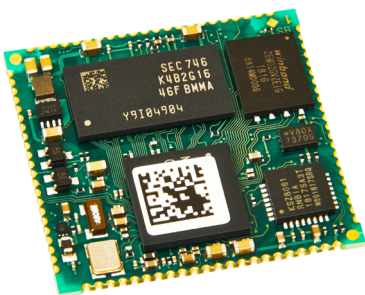
### Applications

- IoT/Industry 4.0
- Medial technology
- Mechanical engineering
- Communications
- Single processor module for wide range of Baseboard families
- Minimum-footprint applications

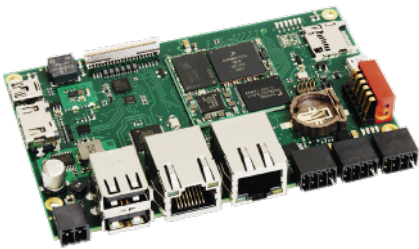


## Products SoM-Line

PRODUCTNAME	ARTICLE NO.	OPTIONS
SL i.MX6 UL 256 MB/256 MB	40099 123	CODESYS® LOW License
SL i.MX6 UL 512 MB/512 MB	40099 122	CODESYS® LOW License
SL i.MX6 ULL 256 MB/256 MB	40099 144	CODESYS® LOW License
SL i.MX6 ULL 512 MB/512 MB	40099 145	CODESYS® LOW License



PRODUCTNAME	ARTICLE NO.	OPTIONS
BL i.MX6 UL 512 MB/512 MB	40099 191	CODESYS® LOW License
BL i.MX6 ULL 512 MB/512 MB	40099 148	CODESYS® MED License
AC Connector Set BL/AL/DL	30099 003	Order in addition to BL i.MX6 UL/ULL
USB-UART Adapter	40099 101	-



## Development kit

PRODUCTNAME	ARTICLE NO.	OPTIONS
DK i.MX6 UL 512 MB/512 MB	50099 061	BL i.MX6 UL, Power Supply, Cables, Debug Adapter
DK 5" i.MX6 UL 512 MB/512 MB	50099 058	BL i.MX6 UL, Touch Display, Power Supply, Cables, Debug Adapter
DK i.MX6 ULL 512 MB/512 MB	50099 046	BL i.MX6 ULL, Power Supply, Cables, Debug Adapter
DK 5" i.MX6 ULL 512 MB/512 MB	50099 042	BL i.MX6 ULL Touch Display, Power Supply, Cables, Debug Adapter





## About Kontron

Kontron is a global leader in IoT/Embedded Computing Technology (ECT) and offers individual solutions in the areas of Internet of Things (IoT) and Industry 4.0 through a combined portfolio of hardware, software and services. With its standard and customized products based on highly reliable state-of-the-art technologies, Kontron provides secure and innovative applications for a wide variety of industries. As a result, customers benefit from accelerated time-to-market, lower total cost of ownership, extended product lifecycles and the best fully integrated applications.

For more information, please visit: [www.kontron.com](http://www.kontron.com)

## About Kontron Electronics

Kontron Electronics GmbH is a full-service provider in the field of electronics, development and manufacturing services. Our business portfolio includes proprietary and client-specific products, development and design services for complex electronics components, modules and systems, as well as production and assembly services for entire devices. The company is part of the technology corporation Kontron AG.

For more information please visit: [www.kontron-electronics.com](http://www.kontron-electronics.com)

## Your Contact

### Kontron Electronics GmbH

Max-Planck-Straße 6  
72636 Frickenhausen, Germany  
Tel.: +49 7022 4057-0  
[info@kontron-electronics.de](mailto:info@kontron-electronics.de)

[www.kontron-electronics.com](http://www.kontron-electronics.com)

## Global Headquarters

### Kontron Europe GmbH

Gutenbergstraße 2  
85737 Ismaning, Germany  
Tel.: +49 821 4086-0  
[info@kontron.com](mailto:info@kontron.com)

[www.kontron.com](http://www.kontron.com)

