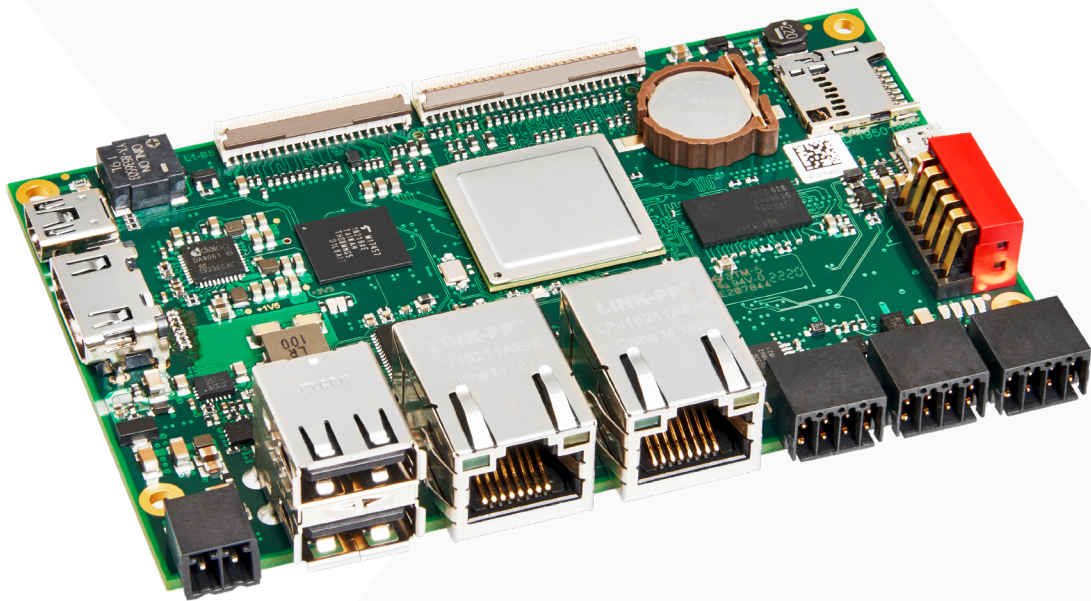


# BL i.MX6 Solo/Dual Board-Line



## Multitalent for Graphics and Communication Applications

- Highly scalable computing power
- Resistive and capacitive touch screens
- Wide range of communication interfaces
- Scalable memory expansion
- Customizable functions via expansion plugs

FUNCTION		STANDARD LAYOUT	OPTIONS
MICROPROCESSOR	CPU	NXP i.MX6 Solo, 1x Arm® Cortex®-A9 @800 MHz NXP i.MX6 Dual, 2x Arm® Cortex®-A9 @800 MHz, 2D GPU and 3D GPU	
MEMORY BASEBOARD	DDR3-RAM NOR-FLASH eMMC SD CARD nvMEMORY	2 GByte 1 MByte 4 GByte 1x microSD Card Slot 8 kByte nvSRAM	512 MByte - 1 GByte 8 GByte - 64 GByte
COMMUNICATION	ETHERNET USB DIO SERIAL CAN	2x 10/100 Mbit/s 2x 2.0 Host, 1x 2.0 OTG 4x DIO (24 V/up to 800 mA) 1x RS232, 1x RS485 1x CAN 2.0 B	
DISPLAY / TOUCH	LCD INTERFACE TOUCH	RGB 24 bit, LVDS, HDMI, up to 1920 x 1080 @60 fps 1x I²C, 1x USB	
OTHER	POWER SUPPLY POWER CONSUMPTION TEMPERATURE RANGE OPERATING SYSTEM FORM FACTOR RTC RTC-BUFFERING DEBUG EXPANSION PLUGS AUDIO	24 V DC ±20 % Linux running <3 W 0 °C ... +70 °C Embedded Linux (Yocto Distribution) 105.5 x 67 mm (4.3") 5 ppm accuracy CR1220 1x Console 1x PCIe, 1x USB, 1x SDIO (4-bit), 1x UART, 1x SAI, 15x GPIO, 1x USB 1x Buzzer	
SAFETY		Secure Boot, RNG, Tamper Detection, Secure Storage, AES-128, DES 3DES, ARC4, MD5, SHA-1, SHA-224, SHA-256, 16 kb Secure RAM, tamper-resistant RTC, Secure Debug, OTP Space	

## Product Highlights

Based on the i.MX6 microprocessor family by NXP, we offer you a customizable CPU platform featuring excellent scalability and long-term availability (minimum 10 years).

A wide range of industrial-grade communication interfaces is on board, as well as an integrated graphics core for 2D and 3D display

as well as an LCD and touch interface. High performance in a compact design (the CPU fits behind a 4.3" display) enables cost-efficient solutions with small footprints.

We combine your ideas with our know-how to develop innovative, competitive products. Contact us, we will be happy to advise you!

### Customer Benefits

- Pin and software-compatible single, dual and quad core versions available
- Integrated 3D engine for sophisticated graphics applications
- Highly integrated processor family with wide interface spectrum for short design and market introduction cycle
- Full Linux toolchain available free of charge

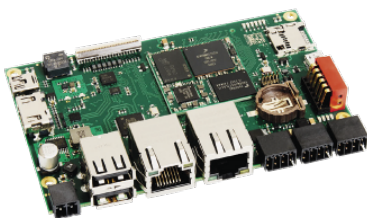
### Applications

- IoT/Industrie 4.0
- Communication
- Medical technology
- High-end touch display
- Edge computing

## Products Board-Line

BL i.MX6 Solo/Dual

PRODUCTNAME	ARTICLE NO.	OPTIONS
BL i.MX6 Dual 2 GB/4 GB	40099 194	-
AC CONNECTOR SET BL/AL/DL	30099 003	Order in addition to BL i.MX6 Dual
USB-UART ADAPTER	40099 101	-



## Products Automation-Line

PRODUCTNAME	ARTICLE NO.	OPTIONS
AL i.MX6 Dual 2 GB/4 GB	50099 054	-
AC CONNECTOR SET BL/AL/DL	30099 003	Order in addition to AL i.MX6 Dual
USB-UART ADAPTER	40099 101	-



## Development Kit

PRODUCTNAME	ARTICLE NO.	OPTIONS
DK i.MX6 Dual 2 GB/4 GB	50099 062	BL i.MX6 Dual, 2 GB/4 GB, Power Supply, Cables, Debug Adapter
DK 5" i.MX6 Dual 2 GB/4 GB	50099 039	BL i.MX6 Dual, 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)

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