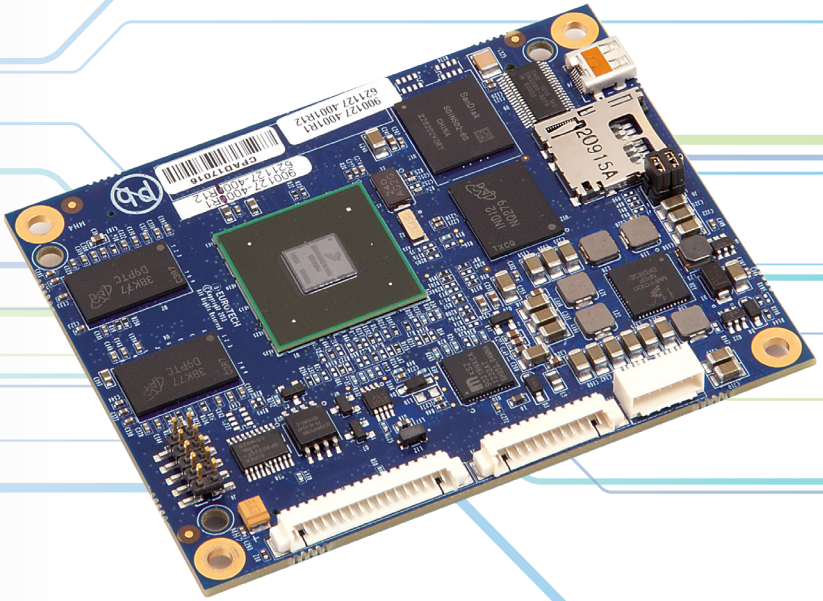
Rugged, Ultra Low Power
i.MX6 SBC/CoM

CPU-301-16

- **Flexible Deployment – CoM or standalone SBC**
- **Multi-Core Configurations**
- **Ultra Low Power, 1-2W Typ.**
- **Feature-Rich in Just 67x85mm**
- **HD Multimedia Playback Support**



ESF Everyware Software Framework

EDC Everyware Device Cloud

FEATURES

The CPU-301-16 is available in two versions: as Computer on Module (COM) to be coupled to a carrier board and as a stand-alone Single Board Computer (SBC).

Multi-Core Options – The CPU-301-16 offers configurations using single core, dual core or quad core technology to give device manufacturers just the right amount of processing power for their application.

Ultra Low Power Consumption – Thanks to Eurotech's proprietary power management, the CPU-301-16 can typically operate at 1-2W or less, making it ideal for battery-operated devices and power-constrained uses.

HD Multimedia Playback – For applications like kiosk, digital signage, and point of sale, the CPU-301-16 can run up to four independent displays at 1080p.

Rugged and Efficient Design – With optional support for industrial temperature range and enhanced vibration tolerance, at 67x85mm the CPU-301-16 fits into very small enclosures, with little or no need for heat dissipation in low power configurations.

Long Life-Cycle – With options for extended lifecycle, any design using the CPU-301-16 will have proven supply and support for many years to come.

Delivering a full range of capabilities in a low-power and compact design, the CPU-301-16 is the embedded platform of choice for a wide range of applications, such as retail kiosk displays, medical equipment, and control panels for fitness equipment. The CPU-301-16 uses leading-edge i.MX6 technology to deliver significant functionality into a form factor that allows for efficient packaging and design. Being extremely power efficient, the CPU-301-16 greatly simplifies heat management, allowing fanless designs for most applications.

The CPU-301-16 is available in two versions: as a stand-alone Single Board Computer (no need for a carrier board: just add a power source, the cables and an enclosure to make a smart device) and as a traditional Computer on Module, where the native interfaces are exposed and expanded through a carrier board. The board support package (BSP) from Eurotech enables the capabilities of the i.MX6 processor, providing an application-ready embedded platform that makes it easy to exploit the full feature set of the module.

The CPU-301-16 extends the Eurotech family of products that make Machine-to-Machine applications possible. With the Everyware Software Framework (ESF) or the Everyware Cloud Cliet loaded on the CPU-301-16, any device using this platform is Everyware Cloud-enabled and ready to be part of the Internet of Things.

To learn how the CPU-301-16 can speed time to market and simplify development for sophisticated devices, contact the Eurotech sales team to order a development kit.

EUROTECH
Imagine. Build. Succeed.

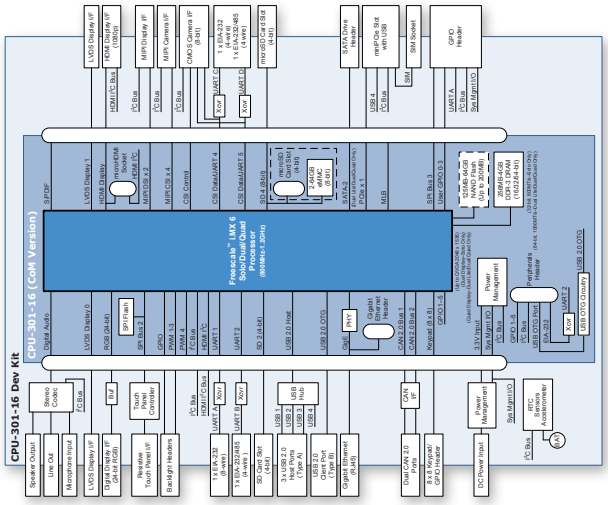
CPU-301-16

Specifications

Rugged, Ultra Low Power i.MX6 SBC/CoM

System Architecture

PROCESSOR	• Freescale i.MX6Solo (Single Core ARM Cortex-A9, up to 1.0 GHz) • Freescale i.MX6DualLite (Dual Core ARM Cortex-A9, up to 1.0GHz) • Freescale i.MX6Dual (Dual Core ARM Cortex-A9, up to 1.2GHz) • Freescale i.MX6Quad (Quad Core ARM Cortex-A9, up to 1.2GHz)
MEMORY	• Main Memory: DDR3L, memory down, up to 4GB • On Board Flash: Memory down, up to 64GB • On Board Flash Expansion: microSD slot, up to 64GB • Off Board Flash Expansion: 8bit SD port
BOOT OPTIONS	• Boot Support: SD, NAND, eMMC, USB
STAND ALONE SBC MODE INTERFACES	• Graphics/Audio: 1x HDMI • USB: 1x USB 2.0, OTG • Ethernet: 1x Gb Ethernet, with integrated PHY • Serial: 1x RS232 (2 wire) • GPIO: 5x GPIO, 3.3V • I2C: 1x I2C bus • Power Supply Single: 3.3V input • Connector Type: Direct Board to Wire (no carrier board required)
CoM MODE INTERFACES	• Graphics: 2x LVDS, 1x RGB, HDMI, MIPI • Audio CODEC Interface: S/PDIF • SATA: 1x SATA-300 • USB: 2x USB 2.0 (1x Host, 1x OTG) • Serial: 4x UART • Expansion/Flash Port: 1x SD interface, 8 bit • Ethernet: 1x 10/100/1000 with integrated PHY, IEEE1588 Support • CAN: 2x CAN 2.0 • PCIe: x1 PCIe • Camera Interfaces: - MIPI Camera - CMOS Camera (Optional) • GPIO: - 21x GPIO, 3.3V (with support for an 8x8 keyboard matrix) • I2C: 2x I2C bus • SPI: 2x SPI bus
PHYSICAL	• Dimensions: 67mm x 85mm • CoM Connector: 2x Tyco Series, 220 Pin
ENVIRONMENTAL	• Operat. Temp.: - Extended -40° to +85°C - Commercial 0° to +70°C • RoHS: Compliant
POWER	• Power Supply: - 3.3V Input - 1-2W Typical - 5W Max • Power Management: - Eurotech Power Management - Sleep/Run/Selective Power Down/Scaling
OPERATING SYSTEMS	• Linux and Windows Embedded Compact 7



EUROTECH
www.eurotech.com

North America
sales.na@eurotech.com

Latin America
sales.la@eurotech.com

Europe, Middle East and Africa
sales.emea@eurotech.com

Asia Pacific
sales.ap@eurotech.com

For your local contact please refer to:
www.eurotech.com/contacts

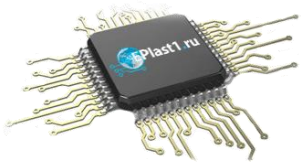
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.