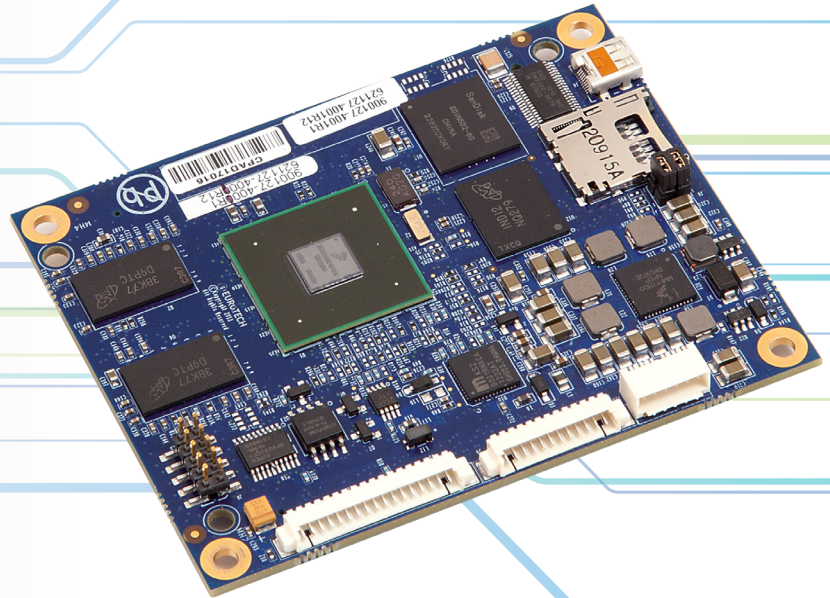


## CPU-301-16

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



### 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.

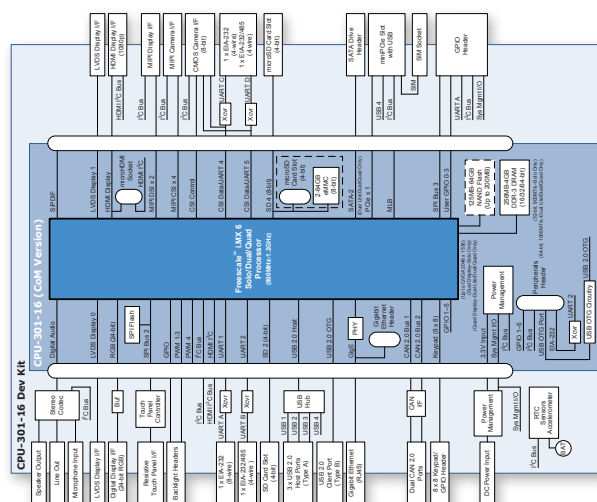
The CPU-301-16 is available in two versions: as a stand-alone Single Board Computer (no need for a carrier board: just add a power source, the cables and an enclosure to make a smart device) and as a traditional Computer on Module, where the native interfaces are exposed and expanded through a carrier 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 Client 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.

## System Architecture

PROCESSOR	<ul style="list-style-type: none"> <li>Freescale i.MX6Solo (Single Core ARM Cortex-A9, up to 1.0 GHz)</li> <li>Freescale i.MX6DualLite (Dual Core ARM Cortex-A9, up to 1.0GHz)</li> <li>Freescale i.MX6Dual (Dual Core ARM Cortex-A9, up to 1.2GHz)</li> <li>Freescale i.MX6Quad (Quad Core ARM Cortex-A9, up to 1.2GHz)</li> </ul>
MEMORY	<ul style="list-style-type: none"> <li>Main Memory: DDR3L, memory down, up to 4GB</li> <li>On Board Flash: Memory down, up to 64GB</li> <li>On Board Flash Expansion: microSD slot, up to 64GB</li> <li>Off Board Flash Expansion: 8bit SD port</li> </ul>
BOOT OPTIONS	<ul style="list-style-type: none"> <li>Boot Support: SD, NAND, eMMC, USB</li> </ul>
STAND ALONE SBC MODE INTERFACES	<ul style="list-style-type: none"> <li>Graphics/Audio: 1x HDMI</li> <li>USB: 1x USB 2.0, OTG</li> <li>Ethernet: 1x Gb Ethernet, with integrated PHY</li> <li>Serial: 1x RS232 (2 wire)</li> <li>GPIO: 5x GPIO, 3.3V</li> <li>I2C: 1x I2C bus</li> <li>Power Supply Single: 3.3V input</li> <li>Connector Type: Direct Board to Wire (no carrier board required)</li> </ul>
CoM MODE INTERFACES	<ul style="list-style-type: none"> <li>Graphics: 2x LVDS, 1x RGB, HDMI, MIPI</li> <li>Audio CODEC Interface: S/PDIF</li> <li>SATA: 1x SATA-300</li> <li>USB: 2x USB 2.0 (1x Host, 1x OTG)</li> <li>Serial: 4x UART</li> <li>Expansion/Flash Port: 1x SD interface, 8 bit</li> <li>Ethernet: 1x 10/100/1000 with integrated PHY, IEEE1588 Support</li> <li>CAN: 2x CAN 2.0</li> <li>PCIe: x1 PCIe</li> <li>Camera Interfaces: <ul style="list-style-type: none"> <li>- MIPI Camera</li> <li>- CMOS Camera (Optional)</li> </ul> </li> <li>GPIO: <ul style="list-style-type: none"> <li>- 21x GPIO, 3.3V (with support for an 8x8 keyboard matrix)</li> </ul> </li> <li>I2C: 2x I2C bus</li> <li>SPI: 2x SPI bus</li> </ul>
PHYSICAL	<ul style="list-style-type: none"> <li>Dimensions: 67mm x 85mm</li> <li>CoM Connector: 2x Tyco Series, 220 Pin</li> </ul>
ENVIRONMENTAL	<ul style="list-style-type: none"> <li>Operat. Temp.: <ul style="list-style-type: none"> <li>- Extended -40° to +85°C</li> <li>- Commercial 0° to +70°C</li> </ul> </li> <li>RoHS: Compliant</li> </ul>
POWER	<ul style="list-style-type: none"> <li>Power Supply: <ul style="list-style-type: none"> <li>- 3.3V Input</li> <li>- 1.2W Typical</li> <li>- 5W Max</li> </ul> </li> <li>Power Management: <ul style="list-style-type: none"> <li>- Eurotech Power Management</li> <li>- Sleep/Run/Selective Power Down/Scaling</li> </ul> </li> </ul>
OPERATING SYSTEMS	<ul style="list-style-type: none"> <li>Linux and Windows Embedded Compact 7</li> </ul>



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# AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit [www.ameya360.com](http://www.ameya360.com)

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

➤ Sales :

Direct      +86 (21) 6401-6692  
Email        amall@ameya360.com  
QQ          800077892  
Skype        ameyasales1 ameyasales2

➤ Customer Service :

Email        service@ameya360.com

➤ Partnership :

Tel          +86 (21) 64016692-8333  
Email        mkt@ameya360.com