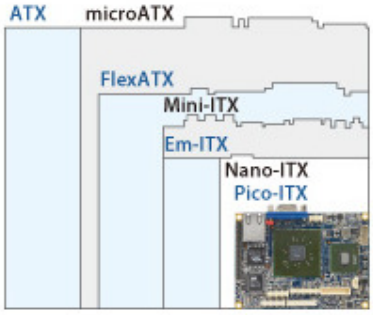
Embedded Boards



VIA Embedded Boards enable a new vision for the digital lifestyle, boasting low power consumption and rich integration on ultra compact form factors. Aimed at driving fast-emerging markets for smart connected devices, from stylish digital entertainment systems and feature-rich commercial embedded devices to mobile applications such as robotics and telematics, VIA embedded boards provide the ultimate platform for systems where size, low profile and power efficiency can be combined with a rich entertainment experience.

EPIA®

Embedded Platform Innovative Architecture

VIA EPIA® embedded boards are the embodiment of VIA's feature rich and power efficient platform technologies. EPIA® boards come in a variety of flavors and form factors. A mix of low-power embedded processors, core logic, networking, connectivity and multimedia components make up the wide selection of available Mini-ITX, Nano-ITX, Pico-ITX and Pico-ITXe embedded boards.

▼ *Mobile-ITX Form Factor (6 cm x 6 cm)*

Currently the smallest x86 computer-on-module specification in the industry, the Mobile-ITX form factor measures only 6cm x 6cm. With an onboard processor and all-in-one chipset along with its simple, modular approach to IPC design, the Mobile-ITX form factor makes it easier than ever to bring to market ultra-compact and lightweight devices that offer comprehensive connectivity options and a rich, flexible feature set.

Pico-ITXe Form Factor (10 cm x 7.2 cm)

Pico-ITX Express (Pico-ITXe) form factor is a self-reliant mainboard with full functionality. The Pico-ITXe is the same size as the Pico-ITX, while supporting customizable I/O expansion modules through the addition of SUMIT™ connectors. Developed to meet the evolving needs of the rapidly-expanding embedded industry, it allows efficient module stacking on its small form factor. It also solves developer's requirements for both high-speed and low-speed serial buses while being spaceefficient and power-efficient. The Pico-ITXe has since been adopted by the Small Form Factor Special Interest Group (SFF-SIG) and is an open standard.

Pico-ITX Form Factor (10 cm x 7.2 cm)

In 2007, VIA launched EPIA® Pico-ITX, the world's smallest commercialized form factor , measuring just 10 cm x 7.2 cm. Designed to enable x86 architecture for embedded systems where it was previously impractical for space reasons, the VIA EPIA® Pico-ITX provides an innovative platform alternative to any standard embedded board or x86 system on module.

Nano-ITX Form Factor (12 cm x 12 cm)

Advancing the trend in platform miniaturization, VIA developed the 12 cm x 12 cm EPIA® Nano-ITX embedded board as the ideal building block for a wide variety of applications requiring even smaller dimensions. With complete connectivity and multimedia technologies, the VIA EPIA® Nano-ITX gives developers even more scope for system size flexibility.

Mini-ITX Form Factor (17 cm x 17 cm)

Launched in 2002, the VIA EPIA® Mini-ITX form factor has inspired thousands of embedded system builders and end users around the world to create innovative devices that take advantage of its small size and rich feature set. The native x86 architecture provides full compatibility with the vast majority of operating systems and software applications available — both proprietary and open source. The Mini-ITX form factor is designed to fit standard ATX mount points — ensuring a wide variety of compatible chassis. At just 17 cm x 17 cm, VIA EPIA® Mini-ITX provides a flexible, cost effective platform for an almost unlimited variety of applications.

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Segment Series

VIA Embedded not only designs the EPIA® series boards, but it also provides application-ready segment platforms to fulfill customer requirements. The VIA Embedded team produces a wide array of segment specific boards for network appliances, digital signage, storage, server and retail stores. From general purpose platforms to segment specific platforms, VIA develops application oriented and easy-to-use features to inspire businesses in the embedded vertical market.

VB Series (17 cm x 17 cm)

VIA Embedded also offers the VB series for entry-level market deployments. The VB series, based on the Mini-ITX form factor, is designed for emerging segment markets and bring VIA's knowledge, ideas, and input to the customers. With the VB series, customers can define their product and application needs faster and more costeffectively.

Em-ITX Form Factor (17 cm x 12 cm)

Em-ITX is a new generation of embedded boards suitable for designing compact systems for diversified embedded control. Based on the Em-ITX form factor, the Em-ITX series support dual-sided I/O coastlines and can combine with Em-IO expansion modules — making it flexible and easy to extend functionality and I/O ports for a specific vertical application.

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