

# Life Automation Solutions

In today's world, the increasing automation of many of aspects of our life continues day on day. VIA is endeavoring to introduce system and board-level products with the advanced technologies to facilitate the latest intelligent automation designs in buildings and offices with more intelligent access control, hospitality and greeting systems, security control and parking lot automation. VIA has developed a range of products that provide a network infrastructure with optimized control and remote monitoring capabilities to create a combination of intelligent control systems for building a comfortable and convenient environment while reducing overall energy consumption.

In an example of an intelligent building with integrated intelligent gate and access control, advanced lighting and facilities management

protocols, VIA's products provide a range of multiple-IO board and system products which can directly interface with sensor and input devices such as entrance access control system, finger print/face recognition system, video control & recording (DVR), security alarms and so on. Users can also monitor, control, and manage real-time access and historical data records, customized developed software applications.

The VIA AMOS and ART series embedded systems feature rugged designs for intensive automation applications. Additionally, VIA provides the VIA VIPRO panel PC range which incorporate touch screen technologies, ideal for HMI solutions.



**NEW**



**VIPRO Series** (P. 158)  
15"/10.4"/6.5" Panel PC with Touch Screen

**NEW**



**ART-3000** (P. 155)  
Compact Fanless Embedded System with VIA Nano™ CPU, 2 Gigabit LAN, 2 LVDS, 4 COM, DC-in 7~36V

**NEW**



**AMOS-3000 Series** (P. 146)  
Ultra Compact Fanless Embedded System for Pico-ITX Boards

**NEW**



**EPIA-M840** (P. 60)  
Mini-ITX Nano™ Board with MPEG-2 & 4/DivX & WMV9/VC1, IDE, SATA, CF, Dual GigaLAN, COM, Dual LVDS & PCIe



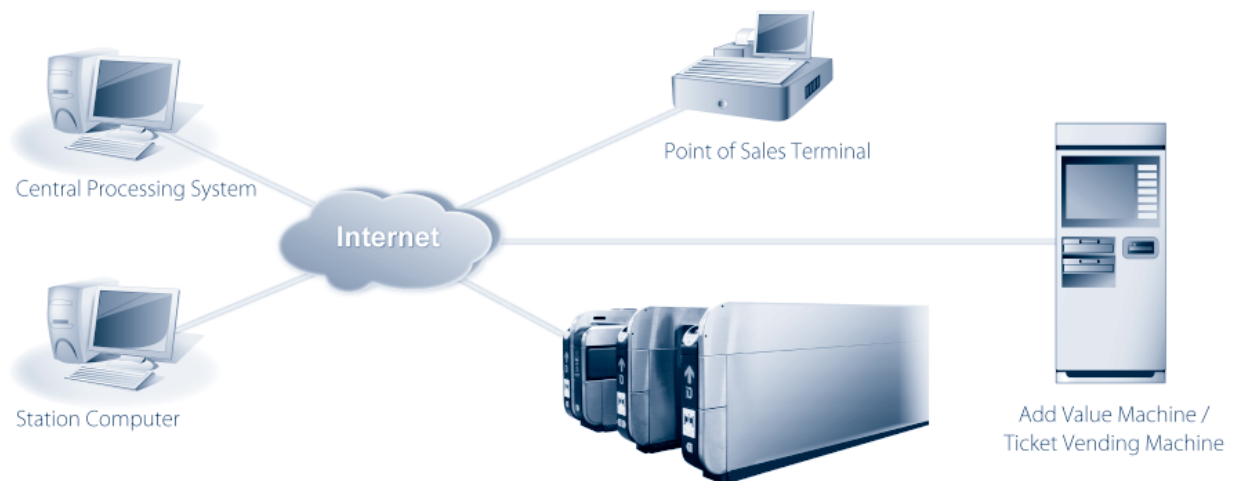
**EPIA-P700** (P. 46)  
Pico-ITX C7®/Eden™ ULV Board with MPEG-2 & 4, WMV9 and CRT/ DVI/LVDS/DC-in

## Transit System Solutions

Mass transit systems and railways play an essential role in moving large numbers of people around our modern cities. More and more of today's subways and transport stations are bringing fitted with increasingly digitized and user-friendly systems to provide operators and passengers greater comfort and convenience. PIS (Passenger Information System) and AFC (Automatic Fare Collection System) are particularly important systems in today's transit industry. These intelligent public infrastructures, also give operators and administrators the advantage of having fast access to data and system updates in all devices involved in the system, bringing valuable operational data which allows the system to adapt to passenger and traffic demands. At any time the operators can see the state and actual activity of any device connected to the system; this means passengers can dynamically obtain service times, departure/arrival schedules and other information such as news, live events, and advertisements, via big-sized displays or self-service kiosks.

VIA offers a range of compelling hardware solutions that are the ideal platform for both in-vehicle, information, display and networking devices used by the transport industry. Here are some key features that are making VIA's board and system level products an attractive proposition as a platform for transit systems:

- Compact size, fanless, easy maintenance and no moving parts
- Outdoor feasibility and overcomes a wide operation temperature
- Anti-vibration and shock resistance to ensure maximum reliability
- Multiple IO supports for connecting with different devices
- Extensive multiple screen support
- Optimized processing performance with low power consumption
- Strong 3D/2D performance graphics engine with MPEG-2/4 WMV9 decoding acceleration to avoid video lag for public information system (H.264 for full HD 1080P for AMOS-3001)
- VIA's unique hardware-based Advanced Cryptographic Engine (ACE) which includes a range of functions including an AES cryptographic algorithm for anti-wiretapping and anti-attacks



NEW



**VIPRO Series** (P. 158)

15"/10.4"/6.5" Panel PC with Touch Screen

NEW



**ART-3000** (P. 155)

Compact Fanless Embedded System with VIA Nano™ CPU, 2 Gigabit LAN, 2 LVDS, 4 COM, DC-in 7~36V

NEW



**AMOS-3000 Series** (P. 146)

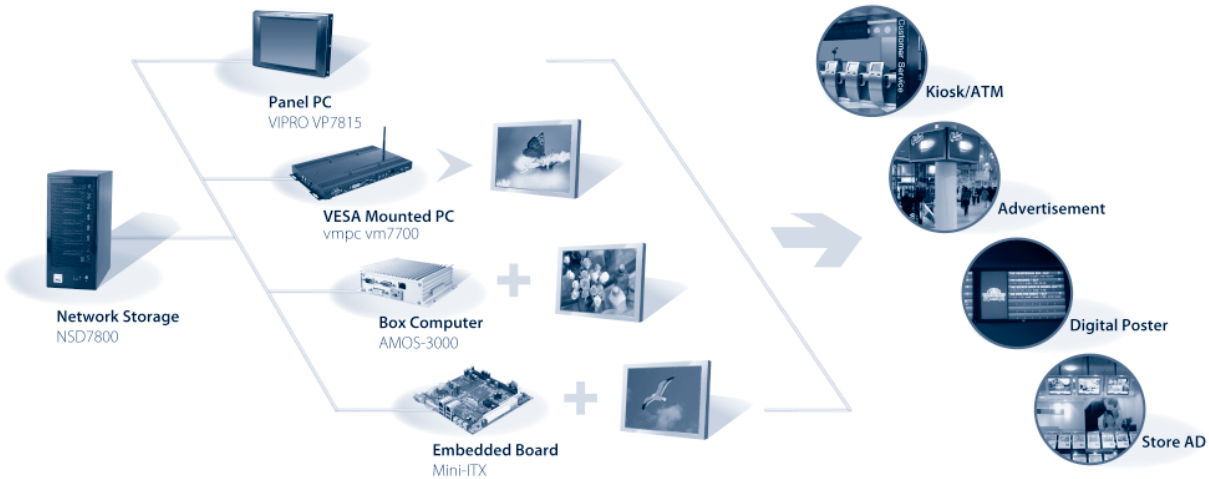
Ultra Compact Fanless Embedded System for Pico-ITX Boards

# Digital Signage Solutions

Digital signage is a rapidly expanding and quickly evolving approach to communications technologies, often implemented as an interactive platform for broadcasting information to targeted individuals in corporations, schools, museums, retailers, hospitals, hotels, airports, and train stations.

VIA provides a complete range of off-the-shelf and ultra compact platforms that enable small footprint and low profile systems with feature-rich functionality ideal for digital signage applications. VIA's complete x86 digital signage solutions enable any retailer or organization to experience the benefits of multimedia-enhanced digital signage networks.

VIA's digital signage platforms are built with a number of display I/O interfaces, including VGA, HDMI, and LVDS. Hardware video decoding acceleration for MPEG-2/4, H.264 and WMV9 formats plus high quality VIA Vinyl HD Audio combine to augment and enhance the customer's in-store experience with the best visual and aural experience possible. VIA digital signage solutions are highly power-efficient and cool running, with the latest high-performance VIA Nano™ processor available on many embedded board and system platforms, with further options that include integrated VIA S3 graphics and stunningly smooth playback of the latest HD video formats. The VIA VIPRO panel series also provides comprehensive IO ports, employing high quality industrial-grade LCD panel technologies, making digital signage deployment as simple and effective as possible.



**NEW**



**VIPRO Series** (P. 158)  
15"/10.4"/6.5" Panel PC with Touch Screen

**NEW**



**AMOS-3001** (P. 149)  
Ultra Compact Fanless Embedded System by Pico-ITX EPIA-P720 & P820 Boards

**NEW**



**ART-3000** (P. 155)  
Compact Fanless Embedded System with VIA Nano™ CPU, 2 Gigabit LAN, 2 LVDS, 4 COM, DC-in 7~36V



**vm7700** (P. 136)  
Ultra-slim VESA Mount Embedded System

**NEW**



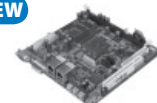
**VB8003** (P. 88)  
Mini-ITX Nano™ Board with 4 Display Outputs, HDMI, DVI, CF, Dual GigaLAN Support

**NEW**

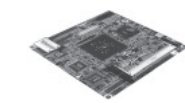


**EPIA-P820** (P. 42)  
Pico-ITX Nano™ Board with MPEG-2 & 4, WMV9, H.264, LVDS, HDMI, USB, SATA & GigaLAN Support

**NEW**



**EPIA-M800** (P. 64)  
Mini-ITX Nano™ Board with MPEG-2 & 4/DiVX & WMV9/VC1, DVI-I, CF & Dual GigaLAN



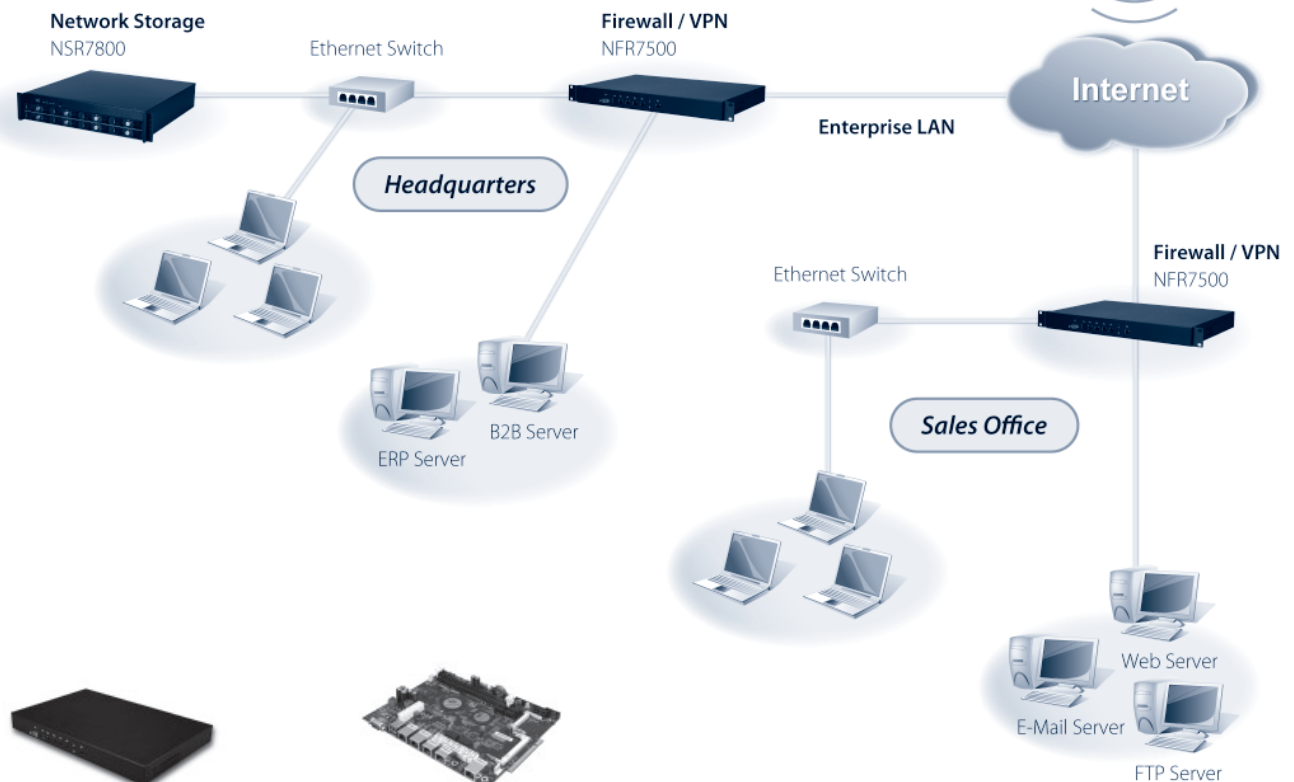
**EPIA NX** (P. 54)  
Nano-ITX C7®/Eden™ Board with MPEG-2 & 4, WMV9 & Dual LVDS

# Network Appliance Solutions

VIA network appliance platforms provide integrated solutions that enable network security, delivery, and management of network data and content in business networks. It makes a performance-intensive network platform when it is under the complex networking protocols environment.

The VIA network appliance series is enhanced with management capabilities such as Watch Dog Timer, LAN bypass, console redirection, TPM security, etc. VIA provides a complete and secure networking platform and helps to implement successful mission-critical business processes.

The NAB7500 provides a reliable and high performance network appliance platform and is equipped with high bandwidth PCI Express Gigabit Ethernet for mass data delivery. The C7® processor ensures continuous business operation with its high performance per watt and low Thermal Design Power (TDP). The NFR7500 is the 1U network security hardware system which is powered by the NAB7500.



**NFR7500** (P. 134)  
1U Network Appliance Platform with C7®, 5 GigaLAN, LAN Bypass and 1 Mini PCI



**NAB7500** (P. 82)  
Network Security Platform with C7®, 5 GigaLAN, Mini PCI, PCI Golden Finger, LAN Bypass

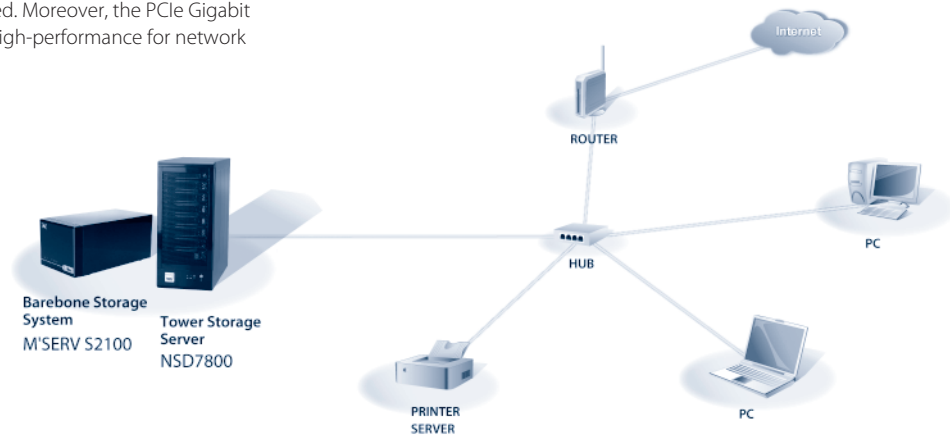
\* All product specifications are subject to change without notice. Update: March 1, 2010.

## Storage and Server Solutions

VIA's storage and server platforms help developers and integrators quickly evaluate their projects to solve customers' needs in data transmission, data backup, storage management and continuous business operation. The reliable platforms include a low power C7® or Nano™ processor (integrated with VIA Advanced Cryptographic Engine) that ensures security and builds a strong infrastructure.

The storage and server platforms can be applied to network storage equipment in Network Attached Storage (NAS) or iSCSI. With the ability to support SATA hard drives, a complete high speed (up to 3.0 Gbps) storage infrastructure can be created. Moreover, the PCIe Gigabit Ethernet ready interface provides high-performance for network applications.

The VIA M'SERV S2100, NSD7200, and NSD7800 are storage-oriented barebone systems and support high-speed SATA hard drives, along with an energy-efficient and low-noise chassis. For home server applications, the storage and server platforms meet Microsoft® Windows® Home Server requirements. The platforms help customers to lower the product development cost, increase product effectiveness, and have fast time-to-market.



NEW



**M'SERV S2100** (P. 126)

Storage-oriented 2-Bay Mini-Server Barebone with Nano™ CPU, Dual GigaLAN, 2 SATA, Compact Flash and USB



**NSD7200** (P. 128)

Storage-oriented 2-Bay Mini-Server Barebone with C7®-D, GigaLAN, 2 SATA, Compact Flash SSD



**NSD7800** (P. 130)

Tower Storage Server with C7®-D, GigaLAN, 8 SATA, Compact Flash and USB



**NSR7800** (P. 132)

2U Rackmount Storage Server with C7®, GigaLAN, 8 SATA, Compact Flash and USB 2.0



**NAS7040** (P. 80)

Mini-ITX C7®-D Board for Storage Server with GigaLAN, 4 SATA, 1 COM Port and 4 USB



**NAS7800** (P. 84)

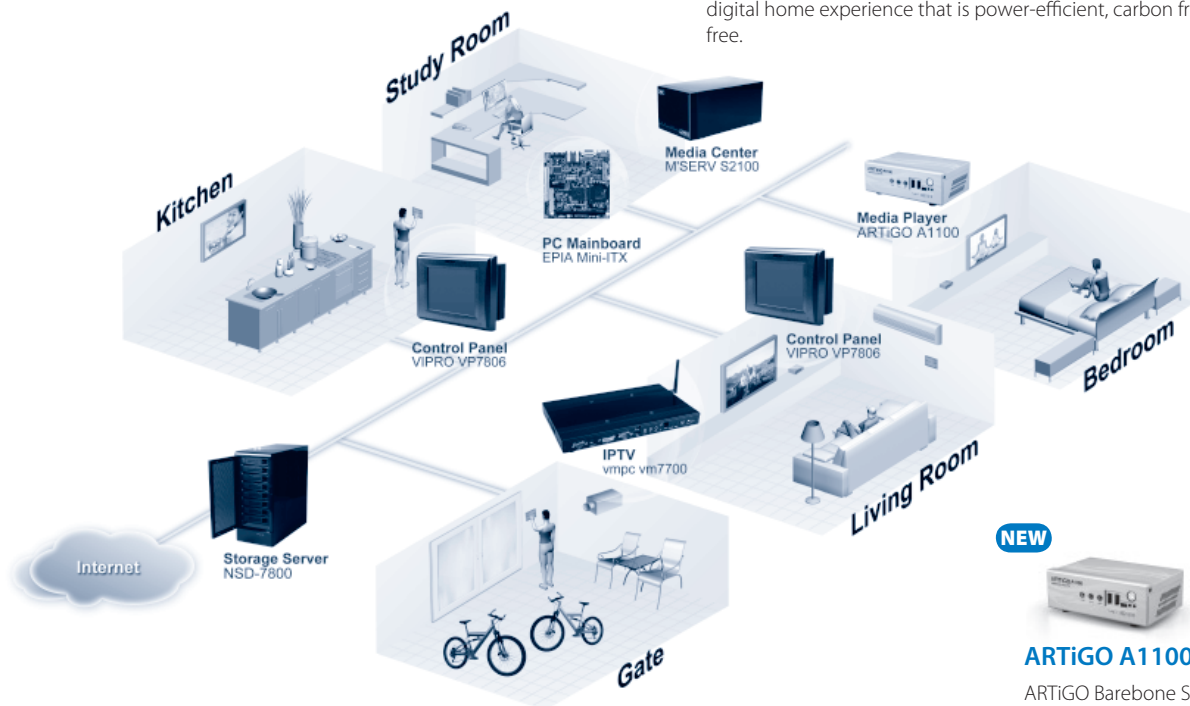
CD-ROM Size Board for Storage Server with C7®, 8 SATA, Compact Flash, USB 2.0 and GigaLAN

## Digital Home Solutions

As the widespread usage of consumer electronics and information technology increases, demand is driving the evolution of technology for the home in areas including Internet connection, storage, software, applications, operating systems, and hardware platforms. These networked technologies make home entertainment, security surveillance, and automation control easier, and enable the convenient sharing of resources with the whole household.

VIA employs its expertise in x86 computing technologies, digital media processing, networking and connections to operate in digital home and poises itself to take advantage of what promises to be a hot division in embedded computing. VIA's digital home solution is based on the Digital Living Network Alliance (DLNA) standard that facilitates managing and accessing digital media on a network. In addition, VIA offers a convenient set of software tools (VIA Future Life SDK and API) that can be quickly integrated with third party applications.

Staying eco-friendly is VIA's long-lasting policy. VIA converges the PC technologies for digital home solutions, while providing an enhanced digital home experience that is power-efficient, carbon free, and lead free.



NEW



**VIPRO VP7806** (P. 159)

Fanless Panel PC with 6.5" TFT LCD and Touch Screen

NEW



**M'SERV S2100** (P. 126)

Storage-oriented 2-Bay Mini-Server Barebone with Nano™ CPU, Dual GigaLAN, 2 SATA, Compact Flash and USB



**NSD7800** (P. 130)

Tower Storage Server with C7®-D, GigaLAN, 8 SATA, Compact Flash and USB

NEW



**ARTiGO A1100** (P. 120)

ARTiGO Barebone System with EPIA-P820 Embedded Board



**vm7700** (P. 136)

Ultra-slim VESA Mount Embedded System

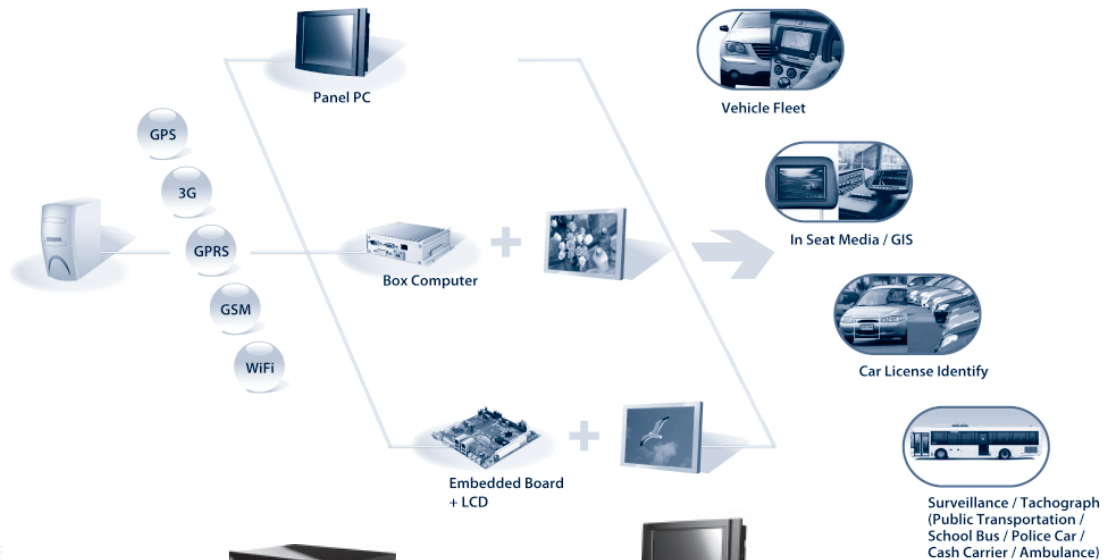
## In-vehicle Solutions

VIA offers versatile industrial computer systems and board-level platforms that provide an excellent solution for in-vehicle implementations including commercial fleets, vans, buses, trucks and marine vessels, all of which require a highly reliable, vibration and shock-resistant device.

VIA in-vehicle hardware platforms couple a rugged design with features that include a range of rich multimedia playback options, fully optimized power-efficient processor platforms and a wealth of compatible wireless networking capabilities. These platforms also provide expansion options including USB 2.0 and serial ports which allow connections to additional devices such as camera, wireless communication devices, GPS receivers, swipe card readers and more.

With VIA in-vehicle solutions, vehicles can be empowered with navigation, tracking, data capture, DVR (Digital Video Recorder), and high speed GPRS/3Gpp Internet access abilities.

Offering system integrators fast time-to-market cycles, VIA provides custom developed fleet In-Vehicle platforms in the form of the VIA IVP-7500 in-vehicle devices board, stackable modularized boards based on the Pico-ITXe standard in the VIA P710-D and Em-ITX based VIA EITX-3000 with it's specially designed VIA EMIO-3430 module. Also, customers can choose easier-to-deploy system devices from the ARTiGO series and as well as the fanless AMOS-3000 series. These in-vehicle systems can display, maintain, and control multimedia content across a wireless network using Wi-Fi or Bluetooth and supports GPS for real-time tracking.



NEW



### AMOS-3000 Series (P. 146)

Ultra Compact Fanless Embedded System for Pico-ITX Boards



### ARTiGO A1000 (P. 124)

ARTiGO barebone system with EPIA PX embedded board, supporting MPEG-2&4, WMV9, USB, VGA & LAN



### VIPRO VP7710 (P. 162)

Fanless Panel PC with 10.4" TFT LCD and Touch Screen

NEW



### EPIA-P710 & P710-D (P. 36)

Pico-ITXe 1.0GHz Eden™ ULV Board with Add-on Card Supporting PCIe slots, 2 USB, 4 GPIO, COM/UART & VGA



### EITX-3000 & EMIO-3430 (P. 111)

Nano™ Processor-based Em-ITX SBC, with Em-IO Add-on Card Supporting 1 PC Card Slot, Optional GPS & Bluetooth



### IVP-7500 (P. 86)

Intelligent Vehicle Platform Eden™ ULV Board with Multi-Video, IDE, SD, GPS & Bluetooth

# POS/Kiosk Solutions

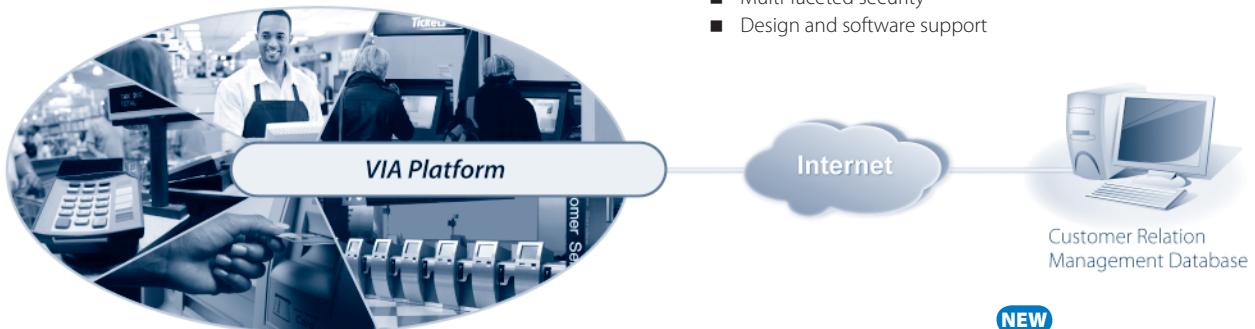
New technologies are bringing intelligent and multi-functional retail systems to commercial and self-service markets, greatly extending the scope and coverage of traditional Point-of-Sale (POS) terminals and kiosks. Retail stores, public information kiosks, bill payment machines, ATMs, ticketing machines and vending machines are now interactive platforms where we rely upon secure and intelligent interaction to make a range of increasingly complex transactions.

VIA POS/kiosk platforms provides industry-standard, reliable and secure technologies with targeted, fail-free features tailored specifically for this market. VIA hardware platforms feature low power consumption and are based on the highly compatible and mature x86 software platform, with market-leading longevity support. VIA's panel computer designs, known as the VIPRO series are targeted at HMI, POI, and kiosk applications, and feature fanless, ultra low power consumption and ruggedized system designs.

VIA also provides the world's most popular small form factor Mini-ITX boards and stackable Em-ITX boards for easy expansion. For POS applications, multiple interfaces for peripherals such as barcode scanners, touch screen displays, and card readers are easily integrated, as are commercial video clips and a centralized data repository server implementations. For kiosk applications, numerous COM port interfaces are included supporting an array of peripheral devices, while IP65 certification makes certain the LCD screens are also suitable for outdoor environments.

The other features for VIA POS/kiosk platforms are:

- Extensive connectivity
- High reliability
- Rich multimedia
- Product lifecycle
- Power efficient and fanless designs
- Silicon compatibility
- Multi-faceted security
- Design and software support



**NEW**



**VIPRO VP7806** (P. 159)

Fanless Panel PC with 6.5" TFT LCD and Touch Screen

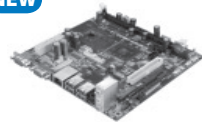
**NEW**



**EPIA-M840** (P. 60)

Mini-ITX Nano™ Board with MPEG-2 & 4/DivX & WMV9/VC1, IDE, SATA, CF, Dual GigaLAN, COM, Dual LVDS & PCIe

**NEW**



**EPIA-M830** (P. 62)

Mini-ITX Nano™ Board with MPEG-2 & 4/DivX & WMV9/VC1, IDE, SATA, GigaLAN, COM, Mini-Pcie & PCIe



**EITX-3000 & EMIO-3210**

(P. 111)

Nano™ Processor-based Em-ITX SBC, with Em-IO Add-on Card Supporting 6 COM Ports and 2 Parallel Ports



**VB7007** (P. 94)

Mini-ITX C7®-D/C7\* Board with VGA, LVDS, USB, COM, Dual LAN, IDE & SATA

\* All product specifications are subject to change without notice. Update: March 1, 2010.