

Intelligent Vending Machine

Combines Vending, Ads & e-Commerce



In Depth

Build Reliable Secure IoT Framework on NEXCOM iNCS

What's Hot

9 New Products Available in The Third Quarter

Event Recap

NEXCOM PC-based Factory Automation Realizes Factory of Things



Dear Partners,

No bad news is good news! As the world's economy comes back to normal situation, the constantly growing IT demand drives the market to upside again. NEXCOM enjoyed a 20% growth throughout last year till the first 5 months of 2014. The mega trends of the IoT (Internet of Things), the cloud and Big Data together push forward the deployment of the digital infrastructure. I think NEXCOM and all partners will benefit from this continuous worldwide IT upgrade in the coming 10 years.

So many miracles happened in the hyper world with the so-called "Internet Speed". In today's net world, a star can be created instantly, but also destroyed easily. People are now talking about the possibility that an industry might appear or disappear instantly under the strong push of the overwhelming "Net Power". So speed—"the speed to catch" and "the speed to change"—becomes the major concern of all enterprises facing the fast changing internet world. This results in the focus on the corporate "Core Values" and the "Outsourcing" of non-critical operations to keep the company competitive in the market. Since IT tools have become more and more sophisticated to manage, and more and more important to corporate success, it is now being outsourced to service providers for more professional, secure, and resilient support instead of doing everything poorly in house.

The cloud and the carriers are now becoming new forms of public utility, providing the computing, the bandwidth, the storage, the corporate IT, the SaaS (Software as a Service) for virtually any applications, including Big Data analytics services. The speed and the focus concerns quickly push both personal and corporate IT business models from product buying to service buying, or at least, from component buying to solution buying! So, the trend is "Go for IT Service". If not, then "Go for IT Solution" for immediate plug & play solution! System integrators and service providers now have no time to cook the solutions from scratch. Facing tough customer requirements, they need "ready-to-go" solutions from the very same vendor. That is the so-called "One Stop Shopping" total solution.

With over 5 different business units and more than 10 product lines, NEXCOM now offers all kinds of Brains (platforms from SoC, fanless, to MP server), all kinds of Faces (control panels from SoC HMI to Intel® Core™ i7 IPPC), all kinds of Eyes (IP cameras from low cost to smart IP cameras), and all kinds of Nerves (fieldbus and all Wi-Fi AP/ Controller). Through the synergies between all the product lines, we are now promoting the "Solution Packs" and "One Stop Shopping" for vertical application domains to save our partners from the time-consuming headaches of compatibility and reliability problems.

At the same time, we continue to leverage leading-edge technology and products from our "Solution Partners" for total solutions in vertical applications like the various MA/FA solutions, the controller based Wi-Fi AP management solutions, the mobile surveillance solutions, industrial firewalls, and many more.

Now you have many options doing business with NEXCOM. You can keep the old business model simply by just buying H/W platforms to bundle with your own solutions. You now enjoy the additional benefit because all products have been validated specifically for different applications. You can of course adopt the one stop shopping business model. In this case all products from NEXCOM are ready-to-go to help you win great projects and businesses!

As the world changes a lot because of IoT, cloud and Big Data, so does the IT business model. Whether to become the newly created star overnight, or newly destroyed, really depends on our smart responses to the new imperative situations. Let's adopt the "One Stop Shopping" approach together to quickly satisfy tough customers and win businesses from the very beginning.

Clement Lin

A handwritten signature in black ink, consisting of a stylized 'C' followed by a series of loops and a long horizontal stroke.

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About NEXCOM

Founded in 1992, NEXCOM has five business units which focus on vertical markets across industrial computer, in-vehicle computer, multimedia, network and communication, and intelligent digital security industries. NEXCOM serves its customers worldwide through its subsidiaries in five major industrial countries. NEXCOM gains stronghold in vertical markets with its industry-leading products including the rugged fanless computer NISE series, the in-vehicle computer VTC series, the network and security appliance NSA series and the digital signage player NDiS series.



Found A Reliable and Secure IoT Framework on NEXCOM Industrial Network Communication Solutions (iNCS)

The advent of Internet of Things (IoT) depicts a future where the internet will become ubiquitous, connecting everything from public utilities to personal devices. As the IoT is gathering momentum, NEXCOM has expanded the product offerings with industrial network communication solutions (iNCS) including industrial switch series and industrial firewall series, aiming to help clients construct a reliable, secure and always-on network, whether it be in process, transportation, or medical environments.

As the network is exponentially expanding its coverage and stepping out into the field, the diverse and challenging environment has rendered the conventional network gear unfit for the work because the conventional network gear is designed for use in a managed setting, for instance data center. Therefore rises the need for industrial network communication solutions.

To this end, NEXCOM has expanded product offerings to include the industrial switch series and the industrial firewall series to help set up and secure an industrial network. Moreover, NEXCOM industrial switch series and industrial firewall series offer dedicated appliances to satisfy different requirements of different vertical markets.

NEXCOM industrial switch and industrial firewall series are designed from the ground up to guarantee reliable operation under harsh conditions, including outdoor environments, extreme temperatures and high humidity. In addition, NEXCOM industrial switch and industrial firewall series provide different levels of protection against transient voltage and continuous vibration for factory and transportation applications.

Also, NEXCOM has built high availability features into the industrial switch and industrial firewall series, providing failover to

ensure always-on network connection and uninterrupted security protection. Designed for ease of use in mind, NEXCOM industrial switch and industrial firewall series support secure remote access, allowing remote users to control and manage the appliances efficiently.

Under the framework of internet-of-things, the industrial network is being deployed in factories to collect raw data from field devices; on public transportation systems to provide passenger infotainment services; on the roadside to offer real time camera feeds from streets; and in hospitals to support telemedicine, just to name a few.

NEXCOM has expertise and decades of experiences in developing dedicated applications for network communication and vertical markets. By rolling out the industrial switch series and industrial firewall series, NEXCOM can help clients handle valuable and sensitive data exchanged over industrial networks.



NEXCOM Consolidates Vending, Advertisement & e-Commerce onto Intelligent Vending Machines



NEXCOM is helping a client build an Android-based intelligent vending machine powered by ARM® Cortex®-A9 based Freescale™ i.MX 6DualLite application processor to allow consumers to buy online and pick up offline. NEXCOM packs the intelligent vending machine with wireless connectivity, interactive multimedia capability, and remote manageability including OTA update features. The client can provide reliable self-service retailing, food takeout, and interactive advertising services, maximizing the value of the intelligent vending machine.

NEXCOM provides 3G, Wi-Fi, and Ethernet connections required for the intelligent vending machine to connect to a cloud server. The machine can update inventory status, accept online payment, and dispense products through remote commands. That is to say

consumers can check, buy, and collect in-stock items with a dedicated mobile app, enjoying seamless online-offline user experiences.

The intelligent vending machine is also biting its way into the online food delivery service with the online-offline model. Relying on NEXCOM's technology, the intelligent vending machine can control more than a hundred of cells and serve as a centralized pickup and drop-off point. The machine can help restaurants scale up delivery service with less effort and allow consumers to enjoy free delivery without minimum order.

NEXCOM also helps the intelligent vending machine build up Full HD multimedia and interactive capabilities with Freescale i.MX 6DualLite application processor and Android operating system. After a sale the machine can play product or company

related commercials to increase brand awareness or use its touchscreen to engage consumers in coupon rewarding games to boost extra revenue. Being able to interact with real customers, as opposed to potential customers holds great appeal for product suppliers and can broaden the client's revenue stream with ad sales.

Being the key revenue engine, the intelligent vending machine is designed from the ground up to achieve high availability. Running on Cortex-A9 based Freescale i.MX 6DualLite application processor, the intelligent vending machine consumes so little energy that it eliminates overheating issues; the operating system and applications are always kept up to the latest version via over-the-air (OTA) update.

NEXCOM also builds custom watchdog timers onto the machine so the machine

can automatically report machine conditions to a central server and allow remote monitoring, control, and debugging to maximize machine uptime. A thorough machine examination can be performed, remotely and onsite, with one simple click. The energy efficient and easy-to-maintain features will reduce the total cost of ownership (TCO) by a significant amount.






NEXCOM and the client is working in collaboration to implement the ARM-based Android intelligent vending machine in crowded metro stations, factories, office buildings, and campuses, aiming to bridge the gap between online and offline retailing to better serve the fast-growing e-commerce market.

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What's New

Worldwide Trade Shows Calendar at A Glance

Month	Exhibitions	Info
8 August	 RTECC – San Diego	RTECC – San Diego
9 September	 Intelligent Transport Systems World Congress	September 8-11, 2014 COBO Center, Detroit, MI USA Booth # 309
	 International Manufacturing Technology Show	September 8-13, 2014 McCormick Place, Chicago, IL USA Booth # E-4541
	 InnoTrans	September 23-26, 2014 Messe Berlin, Berlin, Germany Booth # 203, Hall 4.1
	 ASIS	September 29 - October 1, 2014 Georgia World Congress Center, Atlanta, GA USA Booth # 3852

9 New Products Available in Q3

1 NIFE 100/101

PC-based Automation Controller Advocates to IoT Application

The fanless computer NIFE 100/101 is powered by the latest generation Intel® Atom™ processor E3826 (formerly codenamed "Bay Trail-I"). Designed for PC-based controllers in factory automation applications, NIFE 100/101 offers wide operating temperature ranges of -20 to 70 degrees Celsius and supports a power input of 24V DC +/-20%.

NIFE 100/101 also features optional Mini-PCIe module and 2 x COM ports with 2.5kv isolation protection to meet different communication requirements in factory automation applications (optional PROFIBUS, PROFINET, DeviceNet, EtherCAT, EtherNet/IP master module supported on NIFE 100), M2M applications (with optional GbE LAN, Wi-Fi, 3.5G/4G LTE module) and communication applications (with optional GPIO, RS232/422/485). The built-in 128KB of NVRAM can ensure the data is saved in case of sudden power outage. Supporting the latest Xcare™ 3.0 remote management utility with robust provisioning, NIFE 100/101 is the ideal IoT device of choice for intelligent systems and factory-of-things platforms.

- Onboard dual core Intel® Atom™ processor E3826, 1.46GHz
- 2 x RS232/422/485 ports, 2.5kv optical isolation protection
- 1 x Mini-PCIe socket for fieldbus, 3.5G, LTE or Wi-Fi module
- Extended operating temperature -20°C~70°C, support +24V DC input +/-20%
- DC +24V/-+30%, power isolation module (optional)
- Support Xcare™ 3.0 utility
- Support CODESYS and SoftLogic



2 NISE 2400

Fanless System with 4th Gen. Intel® Atom™ Processor and Enhanced Graphics

NISE 2400 Rear View



Powered by Intel® Atom™ dual core processor E3827, 1.75GHz, NISE 2400 can provide excellent computing, power efficiency and graphic performance than previous generation Intel® Atom™ product family. NISE 2400 supports up to 8G DDR3L memory and has several options for storage devices like CFast, HDD, SSD or mSATA and comes with 2 x COM ports (RS232/422/485) and 5 x USB ports (1 x USB3.0).

This fanless system supports 2 x Mini-PCIe modules for network and automation applications (with optional GbE LAN, Wi-Fi, 3.5G/4G LTE, USB and COM module). Such expansion versatility makes NISE 2400 a highly popular choice for kiosk, ATM, HMI, factory automation and IoT markets.

- Onboard dual core Intel® Atom™ processor E3827, 1.75GHz
- Dual independent display with DVI-I and HDMI outputs
- 2 x Mini-PCIe sockets for mSATA, 3.5G, LTE or Wi-Fi module
- 2 x Gigabit LAN ports with built-in Intel® I210IT with WoL, Teaming and PXE
- Extended operating temperature -20°C~70°C, support +9~30V DC input

3 NISE 301

Fieldbus Concentrator Powered by 4th Gen. Intel® Atom™ Processor with 2x Mini-PCIe Expansions

NISE 301 is a new fanless PC designed for space-critical applications. It features Intel® 4th generation Atom™ processor, 2 x Mini-PCIe expansions and a front access I/O design. Measuring at 205mm (W) x 160mm (D) x 80mm (H), NISE 301 can fit into any 2U 19" rackmount shelf or cabinet easily.

Designed with versatility and cost efficiency in mind, NISE 301 supports 2 x Mini-PCIe expansions that can be configured with different add-on modules to suit different applications. For example, in fieldbus concentrator applications, NISE 301 can be fitted with two different fieldbus interfaces (PROFIBUS, DeviceNet, EtherCAT, PROFINET, and EtherNet/IP protocols) simultaneously and provide master and slave communication with PLC and I/O devices. In IoT applications, NISE 301 can be configured with a WLAN/Wi-Fi/LTE interface and RS232/422/485/GPIO interface for wireless communication and field device control.

In addition, NISE 301 also bundles NEXCOM's latest Xcare™ 3.0 remote management utility to provide advanced provisioning features such as real-time platform monitoring, virus protection and system image restore.

- Intel® Atom™ quad core E3845 BGA processor with DDR3L 4GB max.
- User friendly front access design with 2 x Mini-PCIe expansions
- Support fieldbus interfaces (PROFIBUS, DeviceNet, EtherCAT, PROFINET, EtherNet/IP)
- Support for IoT interfaces (WWLAN, GSM, Wi-Fi, LTE)
- Compatible with Xcare™ 3.0 utility
- DC input 24V +/- 20%



4 NISE 3720

New NISE Industrial Fanless PC Family Member Powered by 4th Gen. Intel® Core™ Processor



Featuring the 4th generation Intel® Core™ BGA processor (formerly codenamed "Haswell"), NISE 3720 delivers increased computing and graphics performance over previous generation platform while offering rich I/O expansions and rugged designs. The ultra lower power consumption (15W) of the mobile processor and rugged aluminum housing enable NISE 3720 to operate within wide temperature ranges of -20 to 60 degrees Celsius.

NISE 3720 supports up to 8G DDR3L memory and provides SATAIII/CFast interfaces for storage expansions. For network connectivity, NISE 3720 supports 2 x Intel® I210-IT LAN ports for dual network teaming functions. For power input, NISE 3720 supports +24V DC input with +/- 20% and this significant design improvement allows more voltage fluctuation of DC power source.

In addition to the design improvement, NISE 3720 supports PCI, PCIe x4 and 2 x Mini-PCIe expansions for additional application versatility. The 2 x Mini-PCIe can be installed with fieldbus interfaces (PROFIBUS, PROFINET, DeviceNet, EtherCAT, and EtherNet/IP) for automation applications, or 3G/Wi-Fi/GSM/LTE interface for IoT applications. The PCI and PCIe x4 can be fitted with add-on modules to suit specific project needs.

- 4th generation Intel® Core™ BGA processor with DDR3L 8GB max.
- Operating temperature range from -20 to 60 degrees Celsius
- Support 2 x Mini-PCIe and PCI/PCIe x4 expansions
- Support mSATA interface (via jumper switch)
- Compatible with Xcare™ 3.0 utility
- DC input 24V +/- 20%

5 APPC 1240T/1245T/1540T/ 1740T/1940T

4th Gen. Intel® Atom™
12"-19" Factory-of-Things Panel PC Lineup

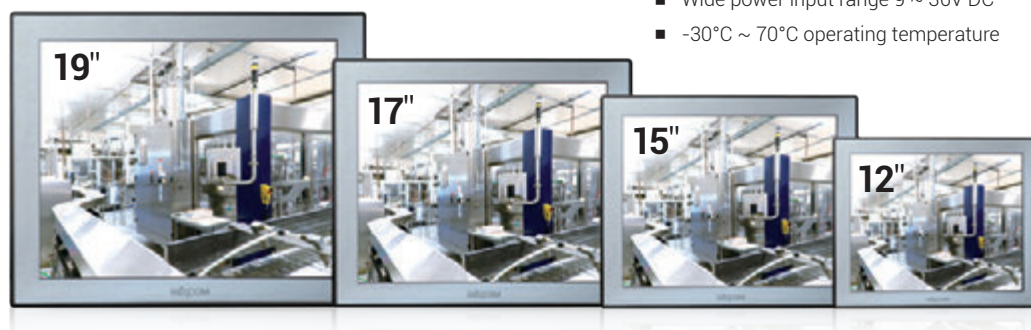
APPC series new 12", 15", 17", and 19" panel PCs incorporate a reliable embedded CPU board powered by Intel® Atom™ processor E3800 product family with integrated Intel® HD Graphics. The front panel adopts a flush design that complies with IP65 standard, making it ideal for harsh industrial applications.

The new generation of APPC integrates widely-used industrial fieldbus master interfaces including PROFINET, PROFIBUS, DeviceNet, EtherNet/IP, and EtherCAT to communicate with programmable logic controllers (PLCs) and remote I/Os made by major brand-name suppliers. In addition, the APPC series can be bundled with SCADA/HMI software for use in SCADA/HMI station.

Designed for high system reliability, the APPC series features 2.5KV isolation protection on the COM ports, 12~30VDC power input and is prepared for EN61000-6-1 and EN61000-6-3 industrial EMC testing. Factories can also benefit from the APPCs' low power consumption and support for remote power control; these features not only increase system reliability but also save energy.

NEXCOM Applied Panel PC series uses 12", 15", 17", and 19" NEXCOM APPD industrial touch monitors which share the same outlook design and cutout dimension with the APPC series. The APPC series also supports a second display with the APPD series.

- 4:3 12", 15", 17", 19" fanless LED panel computer with IP65 compliant front panel
- Intel® Atom™ processor E3800 product family (up to quad cores)
- Resolution up to SXGA (1280 x 1024) with XGA (1024 x 768) supported on APPC 1245T
- Bezel free design for stylish aesthetics with flexible customized membrane
- 2 x Mini-PCIe sockets, 1 x CFast, 2.5" HDD Bracket, 2 x COM, 2 x GbE, 3 x USB, 2nd display-VGA, Line-out, PS2 KB/MS



6 VES30-8S/30-4S

Ethernet Switch Designed for
In-vehicle Applications



The VES30-8S and VES30-4S are fanless 8-port and 4-port PoE switches designed for IP camera connecting in vehicle environments. The VES30-8S and VES30-4S feature 9 and 5 Gigabit Ethernet ports respectively, including up to 8 and 4 IEEE 802.3af compliant PoE ports to transfer large amounts of video, voice and data across networks smoothly and quickly.

The PoE ports on VES30-8S and VES30-4S provide 48V DC and up to 15.4 watts of power per port to support a range of IP cameras and PD devices. Both VES30-8S and VES30-4S support numerous vehicle power management features to ensure reliable operation in vehicles. These include ignition detection for automatic power on/off via ignition signal; power on/off delay to enable the switches to stay on/off for a short period of time after the vehicle is turned on/off; low battery voltage protection to allow the switches to stop consuming power from a low car battery.

The VES30-8S and VES30-4S also support wide power input range of 9-36V DC to support both 12V DC and 24V DC vehicle systems. With a compact form factor and PoE support, the VES30-8S and VES30-4S provide easy installation in space-constrained vehicles and are ideal for vehicle surveillance applications, public buses, school buses, fire engines, patrol cars and garbage trucks.

- 8/4 x 10/100/1000 Mbps PoE port (802.3af compliant)
- Power on/off delay time setting and low battery voltage protection
- E13 mark certification
- Wide power input range 9 ~ 36V DC
- -30°C ~ 70°C operating temperature

7 VMC 4 Series

Tough Vehicle Mount Computer Designed for Off-road Applications

VMC 4000 features high computing power and robust rugged design to run applications in heavy duty vehicle. The VMC 4000 is ideal for use on forklifts, straddle carriers, trucks, mining vehicles, construction machines and marine vehicles. Its cost effective design reduces investment cost as well as long term maintenance cost.

- 12.1" XGA TFT LCD monitor with optional high brightness solution
- Built-in Intel® high performance Core™ i7 or Intel® Atom™ processor
- Rugged construction, fanless design and IP65 sealing
- On screen F1~F10 function key
- Variety of wireless communication options including Wi-Fi/BT/WWAN/GPS and outdoor display



VMC 4 Series

8 NDiS B114

ARM-based Full-HD Digital Signage Player

Powered by ARM® Cortex™-A9 Quad core RISC MPU, NDiS B114 can play full HD contents with ultra-low power consumption. NDiS B114 is enclosed in a compact chassis and can be easily integrated into display devices such as LCD TV or PDP through HDMI connection while offering Gigabit Ethernet connectivity. Multiple operating systems are ready for versatile software applications. NDiS B114 is suitable as an entry level digital signage player for advertising, messaging, and brand promotion.

- Onboard Cortex™-A9 SoC
- Full HD video support
- HDMI 1.4 output with resolution up to 1920x1080 @60Hz
- RS232 in RJ45 connector
- Mini-PCIe slot supporting Wi-Fi/WWAN/TV tuner module



NDiS B114

9 NCr-302-VHR

3MP IP Camera with Zoom Focus Capability

NEXCOM's NCr-302-VHR is a vandal resistant bullet IP camera with smart IR and 3MP image quality including support for zoom focus function. The NCr-302-VHR IP camera is available for indoor and outdoor installations and features true WDR and smart IR to provide crystal clear image output under various lighting conditions. In addition, NCr-302-VHR is housed in an IK8/IP66 certified enclosure for protection from rain, dust and vandalism.

- 30fps @3MP, Full HD 1080P @60fps
- Advance P-Iris
- 100 dB True WDR
- IK8 Vandal Resistant & IP66
- Supports -40°C ~ 60°C / -40°F ~ 140°F



NCr-302-VHR

NEXCOM PC-based Factory Automation Realizes Factory of Things

At Hannover Messe 2014, NEXCOM demonstrated its total solutions which brought in cyber-physical systems to construct a future of smart, green, and urban production. At this show, visitors witnessed how NEXCOM's total solutions kept on fast tracks to realize Factory of Things and to build a smart factory in a cost effective manner.

The NISE 300 Fieldbus Concentrator Solution, which is compatible with advanced control networks using such as PROFINET, PROFIBUS, EtherNet/IP, DeviceNet, and EtherCAT, aroused widespread interest at the show. To demonstrate NISE 300's capability, NEXCOM installed the OPC Server software on the NISE 300 and configured it with VIPA I/O, VIPA PLC, and Hilscher EtherNet/IP, PROFINET and PROFIBUS modules. The solution provides an open architecture for cross-fieldbus communication between HMI and SCADA systems.

The fanless computer NISE 300 features Intel®

Core™ i5-4402E processor and provides high expandability to support multiple fieldbus technologies and internet connectivity. Designed to fit in a 2U rackmount chassis, the NISE 300 is a high computing data server and communication gateway which provides cross-fieldbus communication, makes data-based decisions, and pushes factories down the path towards lean manufacturing.

The Steel Process and AOI Solution which perfectly meets current market demand also shared the spotlight. The fully configured fanless computer NIFE 2310 integrated WINCC and CIMANTIC software and Siemens I/O, PLC, and HMI. The NIFE 2310 was ready to take over steel process and AOI production lines. Powered by dual core Intel® Atom™ D2550 processor, the NIFE 2310 can also be used in industrial fieldbus enable systems installed in harsh operating environments. Targeted at gateway and SCADA control system, the NIFE 2310 has 4x LAN ports, WoL support, LAN teaming, and PXE functions.



In addition, the NIFE 2310 provides 4x COM, 6x USB2.0, one PCI expansion, dual independent display capability, and superb graphic performance to satisfy various application needs. With highly integrated functionality, the NIFE 2310 is easy to use, replace, install, and configure with PROFIBUS, PROFINET, DeviceNet, EtherCAT or EtherNet/IP technologies, for factory automation applications.

To learn more about how NEXCOM PC-based intelligent systems offers cost and engineering efficiency to facilitate the transition from existing legacy automation systems to smart-factory-ready infrastructures, please contact NEXCOM sales representatives.

NEXCOM Public Transportation Solutions Answered Industry's Demands at Intertraffic

NEXCOM presented its latest innovations for public transportation and special purpose vehicle solutions at Intertraffic. The live demonstration for passenger infotainment and video surveillance was met with great response from professionals and visitors, answering the industry's demands for vehicle computing.

At the event, in-vehicle computer VTC 7200 and VTC 1010 took the center stage and demonstrated advanced functionalities for bus applications, including real-time vehicle tracking, monitoring, passenger information and video surveillance. The in-vehicle computer VTC 7200 is powered by the 4th generation Intel® Core™ processor i7-4650U/i5-4300U/i3-4010U and

features a variety of I/O ports. Equipped with three SIM cards and dual WWAN, the VTC 7200 can flexibly switch between different network operators for the most optimal connection and increase bandwidth for faster data transmission. With four Mini-PCIe expansions and a powerful processor, the VTC 7200 is an ideal compact in-vehicle computer for video surveillance, passenger infotainment system, fleet management and dispatching system.

Alongside of VTC 7200, the in-vehicle computer VTC 1010 displayed how its dual WWAN and SIM support can help facilitate fleet management. Based on the Intel® Atom™ processor E3800 product family (formerly



codenamed "Bay Trail"), the VTC 1010 features wide operating temperature range, built-in GPS with optional dead-reckoning, intelligent vehicle power management and four Mini-PCIe expansions. The VTC 1010 is dedicated for on-road public transportation application and can deliver the telematics technology for real-time voice and data communication, vehicle tracking and navigation, mobile video surveillance as well as in-vehicle infotainment.

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The Intelligent Systems

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