



news release

For immediate release

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Emerson Network Power Launches Industry's First COM Express Computing Modules Powered by Freescale QorIQ™ Processors

Off-the-shelf modular format simplifies the design cycle and reduces hardware development time and cost

Tempe, Ariz. [June 17, 2010] - Emerson Network Power, a business of Emerson and the global leader in enabling *Business-Critical Continuity™*, today launched the industry's first modular single board computers (SBCs) based on the COM Express® small form factor powered by Freescale Semiconductor's multicore QorIQ™ processors. The [COMX-P2020](#) and [COMX-P4080](#) bring Freescale QorIQ P2020 and P4080 multicore processors onto modules that incorporate the mechanical features and dimensions of COM Express. The new modules will be showcased for the first time at the Freescale Technology Forum (FTF) Americas, June 21 to 24 in Orlando, Florida, USA.

The new Emerson Network Power COMX-P2020 and COMX-4080 computer modules are designed to accelerate deployment across diverse markets by eliminating the chip-level design effort, simplifying the OEM design cycle while reducing the customer's hardware design time and cost. OEMs are also able to focus on differentiating their product through software and additional features, enabling them to realize revenue sooner. Typical application examples for the COMX-P2020 include programmable automation controllers, security gateways, civil aeronautics and renewable energy; while the more powerful COMX-4080 can be used in storage servers, enterprise routers, enterprise VPN gateways and railway signaling/control equipment.

The COMX-P2020 features two processor cores operating at 1.2 GHz, while the COMX-P4080 has eight cores operating at 1.5 GHz. They offer compact footprints – 95 by 95

millimeters for the COMX-P2020 and 95 by 125 millimeters for the COMX-P4080 – and energy-efficient power usage. A typical use case with the COMX-P2020 requires only 12 W. The modules can support a wide variety of interconnect options and contain special interfaces for maximum design flexibility, including local bus, multiple I²C buses, DUARTs with flow-control, and IEEE[®] 1588 clock signaling.

Richard Dean, embedded hardware program manager at industry analyst VDC Research, said “Accelerating a technology product’s time-to-market by reducing design and development complexities, while simultaneously maximizing product performance, continues to be a critical operational theme for the vast majority of OEMs and systems integrators in today’s highly complex global marketplace. Virtually every successful embedded computing supplier recognizes this trend and has taken steps to streamline development efforts wherever possible and to partner appropriately with others within the embedded ecosystem. Emerson’s and Freescale’s collaborative relationship supports this proposition as evidenced by today’s announcement.”

“With the launch of our series of COMX modules based on Freescale’s QorIQ processors, the industry has a new alternative form factor for their applications based on the Power Architecture,” said Paul Virgo, marketing director of Emerson Network Power’s Embedded Computing business. “These modules provide our customers with a lower cost, more flexible platform for migrating to higher performance.”

“The collaboration with Emerson Network Power will help take SBC solutions to new levels of performance,” said Brett Butler, vice president and general manager of Freescale’s Networking Processor Division. “The prospects for innovation in the industrial, telecom, aerospace and defense, and telecom markets are greatly expanded with the new P2020 and P4080 processor modules. Ultimately, this new technology will help drive the open standards increasingly called for by OEMs serving these markets.”

Emerson Network Power COMX-P2020 and COMX-P4080 modules will support a wide variety of embedded operating systems including packages from Green Hills Software, Lynxworks, Mentor Graphics, QNX and Wind River.

Development kits, including memory, heat sink and carrier board will be available beginning June 21 through Freescale (Freescale part numbers P2020COME-DS-PB and P4080COME-DS-PB).

COMX-P2020 and COMX-P4080 CPU modules are the first in a series of groundbreaking computer modules resulting from the [collaboration](#) announced in March between Emerson Network Power and Freescale. The two companies are working with the PCI Industrial Computer Manufacturers Group (PICMG) and the embedded computing ecosystem to develop an open industry standard for system-on-chip (SoC) architectures such as Freescale QorIQ processors on modular SBCs based on the COM Express small form factor. Computer-on-Modules (COMs) are highly integrated single-board computers (SBCs) that provide the core functionality of a system and allow application-specific features to be designed onto a carrier board, creating a semi-custom embedded computing solution. QorIQ devices, based on Freescale's e500 core designed with Power Architecture® technology, offer a broad range of price, performance and power options that are ideal for a variety of market requirements.

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About Emerson Network Power

Emerson Network Power, a business of Emerson (NYSE:EMR), is the global leader in enabling *Business-Critical Continuity*™ from grid to chip for telecommunication networks, data centers, health care and industrial facilities. Emerson Network Power provides innovative solutions and expertise in areas including AC and DC power and precision cooling systems, embedded computing and power, integrated racks and enclosures, power switching and controls, infrastructure management, and connectivity. All solutions are supported globally by local Emerson Network Power service technicians. For more information on Emerson Network Power's embedded computing products and services, including ATCA®, COM Express®, CompactPCI®, embedded motherboards, MicroTCA® and VMEbus for original equipment manufacturers and systems integrators in the telecommunications, industrial automation, aerospace/defense and medical markets, visit www.EmersonNetworkPower.com/EmbeddedComputing. Learn more about Emerson Network Power products and services at www.EmersonNetworkPower.com.

About Emerson

Emerson (NYSE:EMR), based in St. Louis, Missouri (USA), is a global leader in bringing technology and engineering together to provide innovative solutions for customers in industrial, commercial, and consumer markets through its network power, process management, industrial automation, climate technologies, and appliance and tools businesses. Sales in fiscal 2009 were \$20.9 billion. For more information, visit www.Emerson.com.

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Supporting Statements

Green Hills Software

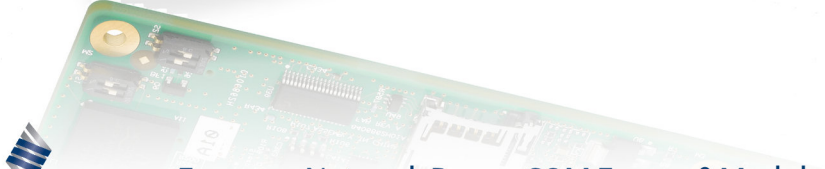
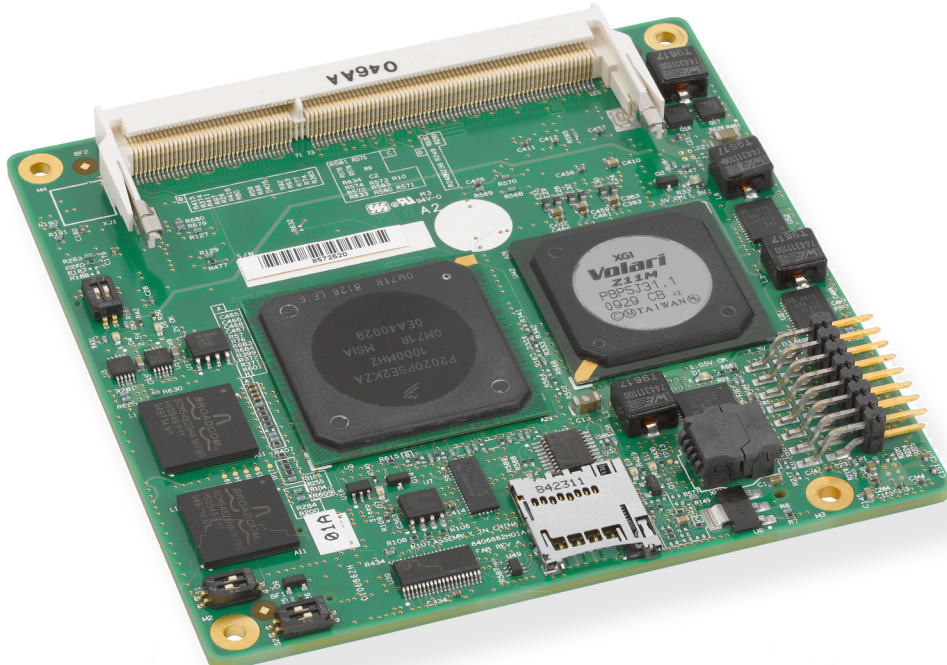
"Green Hills is pleased to provide support for the industry's first QorIQ-based COM Express modules from Emerson Network Power," said Dan Mender, vice president of business development, Green Hills Software, Inc. "The option for our customers to base their system designs on this industry recognized standard, coupled with our complete P2020 and P4080 software development solutions reduces design risks, time-to-market and time-to-revenue for a wide range of markets like telecom, military and aerospace."

Mentor Graphics

"As a key strategic partner with Freescale for embedded Linux enablement, Mentor is excited to see the arrival of Emerson Network Power's COM Express modules for hardware design development," stated Glenn Perry, general manager of Mentor Graphics Embedded Software Division. "Our mutual Freescale customers will be able to accelerate the development of Linux-based multicore applications using the Mentor Embedded Linux platform, creating differentiated end-products that will leverage the speed, performance and power of our collective technologies."

QNX

"As a leader in real-time, embedded OS technology, QNX is excited to be an integral part of Emerson Network Power's first COM Express Computing modules powered by Freescale multicore QorIQ processors," said Romain Saha, business development manager at QNX Software Systems. "Our state-of-the-art tooling and multi-core support will help accelerate the already simplified OEM design cycle, enabling customers to work with a reliable and scalable framework for building high-performance embedded systems."



Emerson Network Power COM Express® Module
Powered by Freescale QorIQ™ Processor