

Editorial		Ads		Editorial Features				
Volume 14	Abstracts	Close	SPECIAL FEATURE	TECHNOLOGY HORIZONS	SOLUTIONS	E-casts	PROMOTIONS	
ISSUE	Articles	Materials	Contributed material	Contributed material	Contributed material		E-CASTS TRADE SHOWS	
January (E-letter)	1Dec09 15Dec09	15Dec09 29Dec09	Moving cost effectively to newer high-speed serial I/O Quick guide: Power Architecture AdvancedTCA Blades			CompactPCI in Avionics		
February Issue 1	8Jan10 26Jan10	26Jan10 12Feb10	Annual CompactPCI, AdvancedTCA, & MicroTCA Systems Resource Guide CompactPCI, AdvancedTCA, MicroTCA, and AdvancedMC Systems Resource Guide featuring Product Profiles Categories: AdvancedTCA • CompactPCI • CompactPCI Express • COM Express • DSP-FPGA • Mezzanines and Carrier Cards • MicroTCA • Packet Processing • PCI Express • PXI • RapidIO • SHB Express COTS Space 2011-2016 Predictions			Cutting development cycles across PICMG technologies		
March (E-letter)	1Feb10 15Feb10	15Feb10 1Mar10	Co-opetition: Where in the xTCA world is it most effective and why Quick guide: Graphics subsystems			Performance gains when multicore partners with AdvancedTCA and/or Integrated systems – pre-configured MicroTCA products work out of the box		
April Issue 2	4Feb10 18Feb10	18Feb10 2Mar10	What's right for flight - SWaP savings with AMCs, FMCs, and Rugged MicroTCA	Backplane signaling in very high speed systems	Processor farm systems for extremely demanding applications or The path to 40G - Applications and architectures for routers and packet handling systems - Evolution paths from existing applications	Rugged MicroTCA Executive Speakout: MicroTCA		
May (E-letter)	31Mar10 14Apr10	14Apr10 28Apr10	An across the form-factors look at best scalability solutions Quick guide: Computer on Modules				SCOPE, CP-TA, and PICMG	
July (E-letter)	28May10 11Jun10	11Jun10 25Jun10	PICMG AdvancedTCA Extensions Specification Update Quick Guide: FPGA Mezzanine Cards				AdvancedMCs	
August Issue 3	1Jun10 15Jun10	15Jun10 29Jun10	Server vs networking applications - Dichotomy of requirements driving different products (high performance x86) - Virtualization and Storage	AdvancedTCA from the thermal engineers point-of-view	MicroTCA in enterprise applications	MicroTCA in enterprise applications Executive Speakout: The Military, high availability, and PICMG		
September (E-letter)	30Jul10 13Aug10	13Aug10 27Aug10	Ruggedized systems based on MicroTCA and AdvancedTCA components Quick guide: iRTMs and RTMs				Commercial AdvancedTCA primer	
September Issue 4	2Aug10 16Aug10	16Aug10 30Aug10	Power, packaging, connectors, and storage	Embedded virtualization or Power efficiency	Application-ready platforms or Building complete solutions	Thermals and cooling - Pushing the envelope within NEB - Benefits of CP-TA B.4 or higher		
October Supplement	2Aug10 16Aug10	16Aug10 30Aug10	FEATURING contributed articles on: 3U CompactPCI, ruggedized MicroTCA, AdvancedTCA This will be shipped to the <i>Military Embedded Systems</i> print magazine circulation plus the <i>CompactPCI, AdvancedTCA, & MicroTCA Systems</i> E-letter and digital magazine circulation lists.				Low cost MicroTCA Executive Speakout: Power, packaging and connectors ♦ ESC Boston ♦ Intel Developer Forum ♦ AdvancedTCA Summit West MIL/COTS DIGEST supplement on PICMG and communications-related products ♦ MILCOM	
November (E-letter)	30Sep10 14Oct10	14Oct10 28Oct10	Signal Integrity: Views from the lab Product guide: AdvancedTCA high-performance compute blades			Central Office vs Data Center - AdvancedTCA extensions - Designing for cost effectiveness - Just servers or any other needs?		
December Issue 5	4Oct10 18Oct10	18Oct10 11Nov10	Annual CompactPCI, AdvancedTCA, & MicroTCA Systems Buyers Guide AdvancedMCs/PrAMCs/carriers • Blades/Single board computers • COM Express • Connectors • Enclosures/packaging • IPTV • Interoperability • MicroTCA • Middleware • Networking/communications • PMCs/PrPMCs/carriers • Power • Software and development • Storage • Switches • Test and development • Thermal management • VoIP • Wireless infrastructure				Big science and xTCA: How close are the commercial opportunities? Feature your 2010 New Products	

Columns: Editor's Foreword • Global Technology • Software Corner

New Products: Be sure to enter your new products into our product database at submit.opensystemsmedia.com to be considered for inclusion in any New Products section. These products are also included in our social media networks, including Twitter (@cpci_atca) and our CompactPCI, AdvancedTCA, MicroTCA LinkedIn group.

Editor's Choice Products: To be considered for Editor's Choice, enter your product news releases at submit.opensystemsmedia.com in addition to sending to an OpenSystems Media editor.

E-letters: E-letters will have the same focus as the Special Feature with bonus contributed material.

E-casts: Any feature topics will be considered for E-casts throughout the year. See our E-cast calendar at ecast.opensystemsmedia.com for more details on upcoming events.

Subscriptions: Subscribe online at www.opensystemsmedia.com/subscriptions.

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Editorial		Ads		EDITORIAL FEATURES				
Issue	Abstracts 1st Draft Articles	Close Materials	SPECIAL FEATURE Contributed material	TECHNOLOGY FEATURE Contributed material	APPLICATION FEATURE Contributed material	QUICK GUIDES	E-CASTS	
February Issue 1 E-letter	3Nov09 1Dec09 4Jan10	4Jan10 23Jan10	TI DSP road map	Compressing ADCs	High-speed converters and FPGAs in wireless design	FPGA development kits	Integrating IP into SoC and FPGA designs	
April Issue 2 E-letter	21Dec09 29Jan10 26Feb10	26Feb10 19Mar10	EDA tools for FPGAs and IP, including static analysis	Overcoming stumbling blocks in using high-level languages for DSP based systems	Delivering IP at even higher levels of integration	Designed for military FPGAs and DSPs	DSP trends and technology	
May Issue 3 E-letter	29Jan10 19Feb10 8Mar10	8Mar10 30Mar10	MCUs and MPUs adjust to perform DSP	Accelerators and specialty cores as DSP efficiency tools	Using FPGAs to embed test instruments into PCB designs	Power efficient DSP and FPGA components, software, systems		
June Issue 4 E-letter	26Mar10 23Apr10 17May10	17May10 28May10	IP cores for ASICs and FPGAs	Algorithms and CODECs for video	Embedded applications centered on Altera Stratix-based boards	Algorithm development tools	IP cores for DSP & FPGA design	
August Issue 5 E-letter	24May10 21Jun10 26Jul10	26Jul10 9Aug10	Top 10 trends in programmable logic devices	Moving FPGA designs to SoCs	Processor solutions for driver assistance and telematics	Xilinx Virtex-based standard form factor boards	Designing with ASICs	
October Issue 6 E-letter	26Jul10 23Aug10 20Sep10	20Sep10 11Oct10	Cutting total system cost through using the latest FPGA configuration techniques	Integrating peripherals with DSP cores	Sizing up DSPs and FPGAs for real-time signal processing challenges	Rad-hard and space-ready DSP, FPGA and hardware products	Hot DSP and COTS trends	
November Issue 7 Print	16Aug10 13Sep10 11Oct10	11Oct10 1Nov10	Annual DSP-FPGA Resource Guide DSP chips & cores • DSP resource boards • DSP enabled software • DSP based carrier boards • FPGA hardware • FPGA & CPLDs • I/O hardware • Applications • Software Tools • Services					
December Issue 8 E-letter	27Sep10 18Oct10 22Nov10	22Nov10 13Dec10	Annual virtual Buyer's Guide	Porting modem software to DSP platforms	Latest audio solutions using algorithms and CODECs	Editor's Choice: DSP and FPGA solutions that altered the ecosystem in 2010	FPGAs and reconfigurable computing	

Columns: Editor's Insight • Military DSP-FPGA Insights • Will Strauss' *Forward Thinking* • Software Insights • The Tool Box

New Products: Be sure to enter your new products into our product database at submit.opensystemsmedia.com to be considered for inclusion in any New Products section. These products are also included in our social media networks, including Twitter (@dsp_fpga) and our DSP-FPGA.com LinkedIn group.

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Editorial		Ads		Print and E-cast Topics			Online Topics	
Volume 8	Abstracts	Close	SILICON Contributed material	SOFTWARE Contributed material	STRATEGIES Contributed material	PROMOTIONS SHOWS E-CASTS	E-letters Contributed material	
ISSUE	Articles	Materials						
January E-letter only	14Dec09	18Dec09				<ul style="list-style-type: none"> Consumer Electronics Show 	The Embedded Side of CES White paper: Multicore silicon	
February Issue 1	27Nov09 10Dec09	Dec 10 6Jan10	Microcontrollers: breaking 8-, 16-, 32-bit boundaries Quick guide: MCUs, reference designs, development kits	Compilers, code analysis, modeling, debug, trace, profiling technology Quick guide: Embedded programming tools	Android, Eclipse, LabVIEW, Symbian, and community-driven platforms Quick guide: Embedded communities, platforms, and apps	<ul style="list-style-type: none"> Mobile World Congress E-cast: EDA/ESL 	Deep Green White paper: Programming Tools	
March E-letter only	12Feb10	20Feb10				<ul style="list-style-type: none"> Embedded World 	Embedded Tech in Phones and MID's White paper: Microcontrollers	
April Issue 2	27Jan10 9Feb10	9Feb10 2Mar10	High-end multicore: CPUs, GPUs, Network Processors Quick guide: Multicore processors, chipsets, and boards	New ground in operating systems: RTOS, Linux, Windows Embedded Quick guide: Embedded operating systems	Applications: Mobile devices, Automotive, Home, Industrial, Medical Executive Speakouts on Device Apps	<ul style="list-style-type: none"> Bonus ESC Silicon Valley Issue ESC Silicon Valley 	From the Floor at ESC White paper: Operating Systems	
May Issue 3	26Feb10 11Mar10	11Mar10 1Apr10	Shape shifting: FPGAs, CPLDs, more programmable logic, IP Quick guide: FPGAs, programmable logic, boards, IP, tools	Virtualization: mix and match cores, OS, costs with needs Quick guide: Software development kits for any application	Security: keeping ahead of the game Quick guide: Security-focused chips, software, devices	<ul style="list-style-type: none"> Multicore Expo E-cast: FPGAs and CPLDs 	Deep Green White paper: FPGAs and Programmable Logic	
June Issue 4	26Mar10 9Apr10	9Apr10 30Apr10	Around the core: memory, Ethernet, PCI Express, USB, graphics, HDMI, audio, wireless, and more Quick guide: Memory, connectivity, multimedia chipsets	EDA: verification, DFM, simulation, and moving beyond basic RTL Quick guide: EDA and ESL design, simulation, verification tools	Focus on low power, energy-efficient, green designs and applications Executive Speakouts on Deep Green	<ul style="list-style-type: none"> Design Automation Conference E-cast: Around the Core: PCI Express and USB, SoCs 	Windows Embedded White paper: EDA tools	
July E-letter only	11Jun10	18Jun10					EDA: The Latest from DAC White paper: Green device design	
August Issue 5	27May10 10Jun10	10Jun 10 21Jun10	Annual Embedded Computing Design Resource Guide Editorial and full product listings: MCUs and ref designs • Embedded programming tools • Multicore processors • Embedded operating systems • Board-level products System-level products • FPGAs and prog logic • SDKs • Security chips and software • Memory • Connectivity chipsets • Multimedia chipsets EDA and ESL tools • SoCs and reference designs • Connectors • Graphical design tools • Simulation and modeling • LCD displays Hard drives • Solid-state drives • MRAM and Flash • and more ideas			<ul style="list-style-type: none"> Bonus ESC Boston Issue ESC Boston NIWeek E-cast: Software Development Tools 	Deep Green Whitepaper: Security	
September E-letter only	13Aug10	20Aug10					Embedded Linux and Devices White paper: SDKs for Mobile Apps	
October Issue 6	30Jul10 12Aug10	12Aug10 25Sep10	Multicore on a device mission: SoCs Quick guide: SoCs, reference designs, development kits	New frontiers: graphical system design, Java, Web 2.0, virtual platforms, and more Quick guide: Graphical design, prototyping, simulation tools	Same processor, different boards: Adding value around x86 chips Quick guide: x86 modules and boards	<ul style="list-style-type: none"> SAE Convergence E-cast: High-End Multicore 	ESC and NIWeek Highlights White paper: Multicore programming	
November Issue 7	30Aug10 13Sep10	13Sep10 4Oct10	Technology for low power and energy efficiency in devices Quick guide: Low-power core IP, power mgmt chips, batteries, energy harvesting	Advanced multicore programming with Embedded Linux and RTOS Quick guide: Multicore programming libraries, tools	EDA: dealing with mixed signal, power, high-speed interconnects Quick guide: EDA mixed signal, power optimization tools, IP	<ul style="list-style-type: none"> Electronica E-cast: Low-Power Devices 	Deep Green White paper: New SW frontier	
December Issue 8	29Sep10 12Oct10	12Oct10 2Nov10	Memory and disk: flash, MRAM, phase change, disks, emerging standards Quick guide: Hard drives, solid-state disks, MRAM chips, flash chips	Infotainment browsers and application frameworks: Mobile, Auto, Home Quick guide: Multimedia middleware, content delivery tools	Annual Trends Issue: Editor's Choice Revisited with Executive Speakouts	<ul style="list-style-type: none"> E-cast: Embedded Linux 	Top 20 Embedded Device Stories White paper: Flash and SSDs	

Columns: Left to My Own Devices • Deep Green

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E-letters: E-letters will have the best of print and online plus new products.

E-casts: Any feature topics will be considered for E-casts throughout the year. See our E-cast calendar at ecast.opensystemsmedia.com for more details on upcoming events.

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Volume 6 ISSUE	Abstracts Articles	Close Materials	HOT TOPIC FEATURE Staff-written and contributed material	TECHNOLOGY FOCUS Contributed material	APPLICATIONS FOCUS Contributed material	PROMOTIONS E-CASTS WHITE PAPERS TRADE SHOWS	
January Issue 1 E-letter	17Dec09 5Jan10	5Jan10 18Jan10	Motion Control	Motion control software and algorithms Motion controller boards DSCs and FPGAs for motion	Robotics, Mechatronics Graphical system design	White paper: Motion Control E-cast: Motion Control	
March Issue 2 E-letter	18Feb 3Mar10	3Mar10 16Mar10	Smart Grid	Sensors for the grid Monitoring computers Wireless and powerline networks	Utility metering Demand management software	White paper: Smart Grid Technology E-cast: Smart Grid Technology	
April Issue 3 Print	3Feb10 16Feb10	16Feb10 25Feb10	Annual Industrial Embedded Systems Resource Guide				Executive Speakout: Digital Signage E-cast: Digital Signage ❖ ESC Silicon Valley
			Digital Signage	Computing • HMI • Networking • Sensors/control • Storage Panel PCs • Handheld computers • DIN rail mount computers and I/O • Windows Embedded, embedded Linux, and RTOS • App dev tools • Rugged LCD displays and touch panels • Motor control • Industrial power supplies • Single board computers • Rugged systems • Fieldbus networking • Device servers • Industrial Ethernet • Power over Ethernet • SCADA • OPC • MEMS sensors • Solid-state drives • Hard disks • Compact Flash, SD card, and other industrial flash formats • and more			
May Issue 4 E-letter	19Apr10 30Apr10	30Apr10 13May10	Microcontrollers	8-, 16-, or 32-bit MCUs Reference designs Development kits	Ultra-low power applications Energy harvesting	White paper: Ultra-low-power MCUs E-cast: Ultra-low-power MCUs	
June Issue 5 Digital	26Apr10 7May10	7May10 28May10	Data Acquisition	A/D boards and modules USB data loggers Signal processing software	Portable data acquisition systems in the field Reconfigurable data acquisition systems	Executive Speakout: Data acquisition Data Acquisition Vendor Directory E-cast: Data Acquisition ❖ ATX East	
July Issue 6 E-letter	18Jun10 1Jul10	1Jul10 15Jul10	Vision Systems	Frame grabbers GigE cameras Image processing software	High-speed inspection Recognition systems	White paper: Frame grabbers E-cast: Vision Systems	
September Issue 7 E-letter	20Aug10 2Sep10	25Sep10 16Sep10	RFID	Active, BAP, passive tags Embedded readers Edge controller systems and software	Asset protection with RFID Secure RFID	White paper: RFID	
October Issue 8 Digital	20Aug10 2Sep10	25Sep10 24Sep10	Industrial Wireless Networks	ZigBee, 802.15.4, Wi-Fi 802.11, 6LoPAN, Bluetooth, Wireless USB, WiMAX, 900 MHz, WirelessHART, ISA100, and more wireless	The most wireless nodes wins Wireless-to-wired gateways	Executive Speakout: Industrial Wireless Wireless Vendor Directory ❖ ISA Expo	
November Issue 9 E-letter	19Oct10 1Nov10	1Nov10 12Nov10	Safety and Security	Certified-safe RTOS IEC 61508 Cyber-risk protection of facilities	Protecting remote equipment Deploying a safe, secure system	White paper: Safety RTOS E-cast: Safety RTOS	

Columns: Foreword Thinking • Editor's Choice • Embedded Now

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Editor's Choice Products: To be considered for Editor's Choice, enter your product news releases at submit.opensystemsmedia.com in addition to sending to an OpenSystems Media editor.

Contributed articles: Accepting contributed articles for each issue. Contact Don Dingee at ddingee@opensystemsmedia.com. Themes are the main focus, but unsolicited material with industrial context can be considered for any issue. Contact to discuss ideas – we will work to shape a story to our audience.

E-casts: Any feature topics will be considered for E-casts throughout the year. See our E-cast calendar at ecast.opensystemsmedia.com for more details on upcoming events.



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Editorial		Ads		EDITORIAL FEATURES				
Volume 6	Abstracts	Close	SPECIAL FEATURE	MILITARY MATERIAL:	APPLICATION FEATURE	PROMOTIONS		
ISSUE	1st Draft	Materials	Staff-written	TECHNOLOGY FEATURE	Contributed material	SUPPLEMENTS		
	Final			Staff introduced, contributed material		TRADE SHOWS		
<i>Editorial Emphasis on Vetronics</i>								
Jan/Feb								
Issue 1 plus January E-letter	9Oct09 6Nov09 7Dec09	7Dec09 10Dec09	Starting with software - RTOS add-ons - Code analysis - C/C++ tool suites	Top 10 technologies for the warfighter Vendors encouraged to submit product ideas to the editor.	Mass storage; data recorders Key processor highlights/roadmaps: AMD, ARM, Freescale, Intel, MIPS, NVIDIA, VIA	E-cast & white paper: Mission-critical technologies ♦ AFCEA West ♦ AUSA Winter		
February E-letter		20Jan10	Contact editors with contributed article ideas					
Mar/Apr								
Issue 2 plus March E-letter	1Dec09 8Jan10 29Jan10	29Jan10 10Feb10	Spacecraft, avionics, and ordnance all get critically rugged - Rugged boards and systems - DO-254 and DO-178B/C flying into DoD platforms - Design for radiation tolerance	Trends in graphics, imaging, simulation: What's new? - GPUs, hardware simulators - Software simulation tools - GPGPU (DSP) algorithm development - Embedded training - Rugged displays	Power conversion - Batteries and power supplies - DC-DC converters; components; EMI/RFI	 Supplement on rugged small form factor boards and systems ** ESC show floor Editor New Product Trends blog ESC Editor's Choice Awards: The Best of ESC E-cast & white paper: RTOS, secure software, and trusted computing ♦ ESC Silicon Valley		
April E-letter		20Mar10	Contact editors with contributed article ideas					
<i>Editorial Emphasis on Avionics and Space</i>								
May								
Issue 3 plus E-letter	8Jan10 1Feb10 15Mar10	15Mar10 26Mar10	RTOS updates Ada, real time, MILS, Common Criteria, proprietary RTOS Open source Google's Android, Linux, OpenGL, Java, Eclipse, others	Communications and net-centric computing - AdvancedTCA, MicroTCA, and other PICMG standards - Civilian wireless (cellular, WiFi, WiMAX) - Ethernet, switches - IP networks	Hardware and software for virtualization Plus: Intel architectures and tools; how Wind River fits in - Multicore - Software - Processors - Methodologies	E-cast & white paper: Net-centric warfare and battlefield communications ♦ Design Automation Conference ♦ Military and Aerospace Electronics Forum		
June								
Issue 4 plus June E-letter	23Feb10 26Mar10 27Apr10	27Apr10 4May10	Security: Storing critical data - Solid state disks - MILS, Common Criteria, DO-178B/C, ARINC-653 - Crypto, COMSEC, IPv6, TPM - Biometrics, RFID, others	Multi-core/multi-processor SBCs for C4ISR Situational awareness technology - Intel and Freescale architectures - Actel, Altera, and Xilinx FPGA architectures - Virtualization and software issues - Multi-processor/multi-core roadmaps	What's new in testing? - EMI, HALT/HASS - Component uprating - Analyzers, ICE, debuggers	E-cast & white paper: Signal processing ♦ SDR Forum		
<i>Editorial Emphasis on Naval platforms</i>								
Jul/Aug								
Issue 5 plus July E-letter	2Apr10 30Apr10 31May10	31May10 10Jun10	Digital Signal Processing (DSP) boards/systems - From algorithm to hardware - Code development tools/optimization - IP cores	Top 10 reconfigurable computing lessons - Hardware and FPGA trends, boards, systems: CompactPCI, VME, VX, VPX, AMC, PMC/XMC/FMC - Software issues - IDEs and operating systems	Electronics, systems, and sw for UAS platforms: Still "dull, dirty, and dangerous"? - Avionics and payloads - Networking - Communications - Onboard processing - Streaming video - Software	 Supplement on VME products ** E-cast & white paper: Multicore, partitions, and computing performance ♦ Intel Developer Forum		

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ISSUE	Final	Materials	Staff-written	Staff introduced, contributed material	Contributed material			
August E-letter		20Jul10	Editorial emphasis on VPX and VME Contact editors with contributed article ideas					
Sept Issue 6 plus E-letter	4Jun10 30Jun10 23Jul10	23Jul10 4Aug10	Annual Military Embedded Systems Resource Guide POINT: The Vendor View - Industry execs predict COTS future COUNTERPOINT: The Military Primes/Subs View - What they need from COTS vendors and industry Key Resource Guide categories include: Boards, Multi-core, Packaging/Mechanical/Chassis, Rugged Boards and Computers, Small Form Factors, Sensors, Systems, Power Conversion, Mass Storage, Middleware/Software, Virtualization, Test and Instrumentation				E-cast & white paper: Executive roundtable on critical technologies fielded in the next 3 years. ♦ MILCOM ♦ ESC Boston ♦ AUSA Washington DC	
October Issue 7 plus E-letter	2Jul10 30Jul10 30Aug10	30Aug10 8Sep10	DoD budget: Top COTS tech for 2011	Data acquisition and I/O products for: avionics, shipboard, vetronics, and space vehicles - 10/100/1000 Ethernet - MIL-STD-1553/1773 - ARINC-429 and related - Other sensor I/O	The VME/VPX ecosystem: - VME, VXS, VPX, OpenVPX - FMC/PMC/XMC - Boxes and chassis DDS, OpenSAF, reconfigurable platforms, enterprise, and open APIs	 Supplement on PICMG and communications-related products ** E-cast & white paper: AdvancedTCA, MicroTCA, and comm platforms in military systems ♦ AdvancedTCA Summit		
Nov/Dec Issue 8 plus November E-letter	20Aug10 17Sep10 15Oct10	15Oct10 29Oct10	Enterprise software for military use - Project management; logistics - Cost estimation/accounting - Databases - Terrain/graphics, mapping Microsoft Windows machines—from laptops, netbooks, desktops, and servers ... to embedded.	Small form factors; rugged duty Mini-ITX, PC/104, SFF-SIG, COM Ruggedization techniques Shock, vibration, thermal, cooling	Counterfeit components How to tell, what to do	E-cast & white paper: Military power solutions		
December E-letter		19Nov10	Contact editors with contributed article ideas					
** Supplements: An inside-the-magazine special editorial and products supplement in concert with an OpenSystems Media sister magazine. Supplement on rugged small form factor boards and systems published with PC/104 and Small Form Factors February issue. Supplement on VME products published with VME and Critical Systems fall issue. Supplement on PICMG and communications-related products published with CompactPCI, AdvancedTCA & MicroTCA October issue.								

Columns: Crosshairs Editorial • Daily Briefing: News Snippets • Field Intelligence • Industry Analysis • Legacy Software Migration • Military Technology Insider
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Editor's Choice Products: To be considered for Editor's Choice, enter your product news releases at submit.opensystemsmedia.com in addition to sending to an OpenSystems Media editor.
Occasional Feature: Under the mScope ... the latest in CPUs and MCUs
E-letters: E-letters will have the same focus as the Special Feature with bonus contributed material.
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Volume 14	Abstracts	Close	THE BIG YET SMALL PICTURE Exclusive features and interviews	SMALL FORM FACTOR ROUNDUP Updates on boards, systems, and specs	TECH SMALL TALK Views on system design issues	IT'S A SMALL (FORM FACTOR) WORLD Application stories Contributed material	PROMOTIONS SUPPLEMENTS TRADE SHOWS E-LETTERS
ISSUE	Articles	Materials	Staff-written and contributed material	Contributed material	Contributed material		
February Supplement Issue 1	11Dec09 7Jan10	7Jan10 26Jan10	SFFs in defense: Rugged gear for today's battlefield Boards and systems built for harsh environments	Editor's picks of the top product listings targeting the defense market			 Supplement on rugged small form factor boards and systems
Resource Guide (March) Issue 2	14Jan10	26Jan10	Annual PC/104 and Small Form Factors Resource Guide <i>Featuring PC/104 Consortium, SFF-SIG, and other small form factor-related product profiles</i> Sections: Communications and networking • Complete systems • Industrial automation • Interfaces • I/O boards • MIL-SPEC • Packaging • Processor boards/SBCs • Storage • Vision systems and displays • And much more			Articles on the following topics welcome: Commercial: security mobile/wearable computing mining construction farming oil/gas	Bonus ESC Silicon Valley issue with pre-show announcements ♦ ESC Silicon Valley
	27Jan10	5Feb10	Super-fast signaling Do emerging COMs have what it takes to meet the needs of PCI Express 2.0, USB 3.0, DisplayPort, and ultramobility?	The SBC scene EBX, EPIC, Catalyst, Industry Standard Module, Mini-ITX, PC/104 family, Pico-ITXe, Pico-I/O, Qseven, and more	Welcome to the next generation Designing with the latest x86 processors and chipsets from Intel, AMD, VIA		
Spring (May) Issue 3	15Mar10 26Mar10	27Mar10 19Apr10	Executive forum: Too much of a good thing Will fragmentation among SBC standards continue? Should it?	Pocket full of connectivity Mobile Internet Devices (MIDs) and UMPCs Plus: Windows 7	Finding the perfect fit When to stack vs. when to use carriers	Defense: handheld devices man pack unmanned vehicle ship, tank, aircraft surveillance C3I	ESC Editor's Choice Roundup Quick Guide: Stackable SBCs - PC/104 family, SUMIT, Mini-ITX, and more E-letter & white paper: Designing with Atom
Summer (July) Issue 4	12May10 25May10	25May10 16Jun10	The same old interconnect argument Are legacy buses dead? What will drive low-speed I/O going forward?	Hot boxes Small systems and enclosures for military, commercial, and industrial applications	Primed for processing Choosing an OS optimized for multicore: Windows Embedded, Embedded Linux, or RTOS	Health care: imaging/diagnostics patient monitoring point-of-care terminals medical tablets	Quick Guide: Carrier boards and other unique modules (COMs, SOMs, ETX, and more) E-letter & white paper: Packaging and power supplies
Fall (September) Issue 5	30Jun10 14Jul10	14Jul10 4Aug10	Mission interoperable With so many SFF standards, how can designers get them all to work together?	Small and even smaller Standard sizes: SUMIT, COMIT, MiniBlade, PCI/104-Express, PCIe/104, USB/104, and more Non-standard sizes: ARM-based modules	Intelligent interfacing Trends in I/O, connectors, and displays	Industrial: control/automation data acquisition, networking communications robotics	♦ ESC Boston E-letter & white paper: Ruggedizing small form factors
Winter (November) Issue 6	13Sep10 30Sep10	29Sep10 20Oct10	Annual PC/104 and Small Form Factors Buyer's Guide Sections: Communications • EPIC • ETX • Industrial automation • Mini-ITX • Packaging • PC/104 • PC/104-Plus • PCI/104-Express • Rugged and MIL-SPEC • Stand-alone systems • Storage • SUMIT • And much more			Infotainment/transportation: kiosks point-of-sale digital signage gaming/entertainment mass transit	E-letter & white paper: Communications via serial, Ethernet, USB, PCI Express, etc.

Columns: Editor's Insight • PC/104 Consortium • Small Form Factor SIG • Euro Small Tech

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Editorial		Ads	Editorial Features				
Volume 28 ISSUE	Abstracts 1st Draft Final	Close Materials	SPECIAL FEATURE Contributed material	TECHNOLOGY FEATURE Contributed material	APPLICATION FEATURE Contributed material	PROMOTIONS SUPPLEMENTS E-CASTS TRADE SHOWS	
Spring Issue 1 (Plus E-letter)	15Dec09	22Feb10 1Mar10	"Hottest" SBCs - Intel-based - PowerPC-based - Others	Flexibility required: Enabling reconfigurable computing - Stratix and Virtex; other FPGAs - Programmable boards - Middleware	Avionics get technical: DO-178, DO-254	E-cast: VPX	
	19Jan10 22Feb10		SPECIAL COVERAGE – Call to duty: VPX - OpenVPX - VITA 65 (VPX System specifications and practices) - VPX enabling large system configurations Also: VITA 48 (REDI) and VITA 41 (VXS) Where are they now?	Getting critical: RTOS and software Ada, Java, virtualization, middleware, separation kernels/security	Virtualization shares the wealth – without the extra expense - Virtualization methods - Processors/hardware - Operating systems/software	E-cast: VXS	
Summer Issue 2 (Plus E-letter)	12Mar10 16Apr10 18May10	18May10 28May10	Annual VME and Critical Systems Resource Guide EXECUTIVE Q&As – Which VITA technology is most relevant to today's military market needs? Also EXEC "GUEST OPINION" ARTICLES – Can converted commercial technologies really make the grade in mission- and safety-critical apps? CONTRIBUTED ARTICLES – The latest in the I/O and mezzanine scene: PMC, XMC, FMC, plus: 1553, Serial FPDP, USB, ARINC, Ethernet Key Resource Guide categories include: Audio/Video • Devices • Carrier boards • Mezzanines • Communications • TCP/IP • Serial fabrics • Automation • Packaging • Ruggedized • MIL-STD • Software and development tools • Test and analysis • VXI controllers • Displays • Instruments • SBCs • and more				E-cast: VPX
	15Jun10 15Jul10 16Aug10		Special MIL/COTS DIGEST supplement edition – FEATURING 600-word contributed mini articles on nascent VITA standards: VITA 41, 46, 48, 51, 56, 57, 58, 59, 65, and others <i>This MIL/COTS DIGEST supplement on VME products is printed inside the July/August issue of Military Embedded Systems. The supplement will also be distributed electronically to the E-letter and digital magazine circulation lists of VME and Critical Systems.</i>	 Supplement on VME products			
Fall Issue 3 (Plus E-letter)	15Jun10 15Jul10 16Aug10	16Aug10 25Aug10	Maximizing signal processing and data acquisition SDR, DSPs, FPGAs, ADCs, DACs, signal conditioning, waveform generators, data recorders, I/O, sensors	VME stays interconnected Serial RapidIO, PCI Express, 10 Gb Ethernet, COMMS, and latest networking technologies	The latest upswings in mass storage and data recorders HDD and SSD; JBOD, RAID	E-cast: Mission critical	
	13Sep10 30Sep10 22Oct10		Annual VME and Critical Systems Buyer's Guide Theme: How will VPX fit into today's VME-based critical systems?				E-cast: Cooling and Ruggedization 'tilities
Winter Issue 4 (Plus E-letter)	13Sep10 30Sep10 22Oct10	22Oct10 29OCT10	SBCs on a power trip Design considerations for: - Low-power - Multicore - AMD, Intel, IBM, Freescale, and others	Rugged mechanicals Up to the challenge? MIL-SPEC; chassis/cabling/other packaging; air- and conduction-cooling; backplanes; connectors	Seeing is believing Graphics and simulation, GPUs, JPEG/MPEG compression, OpenGL		

Columns: Editor's Foreword • VITA News • VSO Update and Activity • Defining Standards • VME in Europe • From the OpenVPX Board Room

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