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Articles			Ads		EDITORIAL FEATURES			
Volume 3	Abstracts	Close	SPECIAL FEATURE	MILITARY MATERIAL: TECHNOLOGY FEATURE	APPLICATION FEATURE	PRODUCT GUIDE	PROMOTIONS & TRADESHOWS	
ISSUE	Articles	Proofs	Staff Written	Contributed Material	Contributed Material		Magazine Distribution	
Jan/Feb Issue 1	16Oct07 21Nov07	21Nov07 3Dec07	Component obsolescence (DMSMS/OBS): Mitigation techniques, aftermarket suppliers, long-term storage, counterfeit components, how to tell, what to do Radiation redesign Component issues: SEU, TID Software for space	The top 10 technologies sure to affect our war fighters Vendors encouraged to submit product ideas to an OSP editor	Mass Storage: • Solid state (flash); other nonvolatile • Data capture/recorder • Encryption, reliability, erasure • Flash memory roadmaps Key processor highlights/roadmaps: • AMD, ARM, Freescale, IBM, Intel, Sun, VIA • Other desktop/server and MCUs	x86 and PowerPC-based SBCs Special emphasis on low-power products	Components ♦ AFCEA/Technet West ♦ AUSA Winter ♦ CMSE	
Mar/Apr Issue 2	3Dec07 8Jan08	8Jan08 22Jan08	RTOS updates: Trends, IDEs, Ada, and Java Open source: Linux, OpenGL, Java, Eclipse, others APIs to watch	Graphics, imaging, simulation: What's new? Displays (incl. rugged), video/imaging, 3D rendering, algorithms, compression, data movement C4ISR application/system examples, programs, requirements, trends	Small form factors; rugged duty: • Rugged computers; portables • Mini-ITX, PC/104, UMPC, COM, others • Rugged MicroTCA • "Shoebox" chassis trends Ruggedization techniques How do they do it? • Shock, vibration, thermal considerations	MIL-SPEC and avionics I/O boards Data acquisition mezzanines	Software Supplement on chassis/cooling/cabling; mechanical products with MIL/COTS DIGEST ♦ ESC Silicon Valley ♦ Multicore Expo	
May Issue 3	11Feb08 18Mar08	18Mar08 2Apr08	FPGA boards/systems • CompactPCI, VME, VX, VPX, PMC/XMC • PCI and custom • Reconfigurable computing and systems • Military service for FPGAs/Systems: How vendors compare	Communications & net-centric networking: AdvancedTCA and other PICMG standards, Ethernet speeds keep rising, high availability software and diagnostics, consumer wireless	FPGA development tools: Simulators, place/route, IDEs, system synthesis, virtual prototypes, Eclipse plug-ins, algorithm development and FPGA libraries IP cores: including filters, processors, peripherals	FPGA development tool kits	FPGAs Programmable Logic supplement with DSP-FPGA.com ♦ Design Automation Conference	
June Issue 4	12Mar08 17Apr08	17Apr08 1May08	POINT: The Vendor View: Industry execs predict COTS future and COUNTERPOINT: The Military Primes'/Subs' View: What they need from COTS vendors and industry Key Resource Guide categories include: Boards • Packaging/Mechanical/Chassis • Rugged Boards and Computers • Sensors • Systems • Power Conversion • Mass Storage • Middleware/Software • Test and Instrumentation				Annual Resource Guide	
Jul/Aug Issue 5	14Apr08 20May08	20May08 3Jun08	Digital Signal Processing: SDR, from algorithm to hardware, code development tools/optimization	Reconfigurable computing: H/W trends, FPGA trends, S/W issues, IDEs and operating systems, reducing all that power	Software-Defined Radio (SDR): JTRS and other programs, SDR Forum update, mesh networks and other wireless systems, civilian wireless (cellular, WiFi, WiMax)	Multiprocessor/multicore SBCs DSP modules and systems	Supplement on VME products with MIL/COTS DIGEST ♦ ESC Boston ♦ RapidIO Design Summit ♦ Flash Memory Summit	
Sept Issue 6	20Jun08 25Jul08	25Jul08 8Aug08	More small form factor boards Rugged computers	Put the mettle to the metal: Mechanical design techniques, MicroTCA, VX, VPX designs, design for conduction- and air-cooling	Simulation boards and systems: Hardware simulators, software simulation tools, systems issues	Ethernet I/O modules Ethernet software TCP/IP offload engines (boards and software)	Rugged computers and small form factors ♦ AUSA Washington DC ♦ Intel Developers Forum ♦ Power Architecture Developer Conf ♦ Autotestcon ♦ MILCOM	
Supplement on DSP/reconfigurable computing/SDR with MIL/COTS DIGEST								
October Issue 7	21Jul08 27Aug08	27Aug08 10Sep08	Security: MILS, Common Criteria, DO-178B/C, ARINC-653, information assurance, Crypto, COMSEC, IPv6, RTOSs, partitioning, EAL-7, biometrics, RFID, storing critical data	Designing with multicore/multiprocessors: Homogeneous or heterogeneous?, Clusters and system issues, Interconnection: fabrics vs. Ethernet, virtualization and software issues, multiprocessor/multicore roadmaps	Testing/Test systems: EMI/RFI/UL/FCC shielding; tests, HALT/HASS; temperature, ESS, shock and vibration, component uprating, software, analyzers, ICE, debuggers	Military PCs, boards, boxes (Windows and Linux)	♦ SDR Forum	
Nov/Dec Issue 8	12Aug08 18Sep08	18Sep08 10Oct08	Enterprise software for military use: Project management, cost estimation/accounting, logistics, obsolescence/EOL prediction, UML/MDD/IDEs, simulation tools, databases, terrain/graphics	Power conversion: Batteries, rugged UPS (supplies), DC-DC converters, power supplies, EMI/RFI filters (components, chassis, system)	Standards update (from consortia): PC/104 and other Small Form Factors (SFFs), Eclipse, PCI Express, Ethernet, PICMG, RapidIO, VME (VITA)	Mechanical marvels: Chassis (ATR, rack, liquid cooled, "shoebboxes"), backplanes, connectors and cables, heat sinks/pipes; fans	Supplement on power conversion and supplies, batteries, power management products with MIL/COTS DIGEST ♦ IITSEC	

Columns: Crosshairs Editorial • Industry Analysis • Field Intelligence • Daily Briefing • Military Technology Insider

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