



AdvancedTCA Newsletter

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What's New in AdvancedTCA

AdvancedTCA Summit, October 17-19, 2006, Santa Clara, California, issues Call for Presentations

Emerson acquires Artesyn Technologies

BlueSlice Networks announces only commercially available AdvancedTCA-based Home Location Register (HLR)

AudioCodes' newly developed VoIP Media Gateway cPCI blade offers up to three T3 interfaces

Plus - 1. AdvancedTCA Summit Call for Presentations, 2. Industry News, 3. Contributing Editors' Perspectives, 4. 2006 Annual Sponsors—Artesyn Technologies, Diversified Technology, Positronic Industries, and RadiSys, 5. Features, 6. Financial News, 7. Newsletter Advertising Rates, and 8. Newsletter Archives

1. AdvancedTCA Summit, to be held October 17-19, 2006, in Santa Clara, California - has issued a Call for Presentations.

Summit theme: *"Leading the Way to New Telecom Services"*

Program - The AdvancedTCA Summit program is designed to provide attendees with practical information on the current state of the Advanced Telecommunications Computing Architecture (AdvancedTCA), the emerging standard platform for telecommunications equipment. It consists of: tutorials, panel discussions, keynotes, paper sessions, workshops, and special sessions.

Typical topics of interest include: high-availability systems and system development, AdvancedMC modules, MicroTCA, IP telephony, wireless applications, Ethernet equipment design, and more.

Intended Audience: The Summit is open to everyone involved in the design, development, integration, marketing, use, or support of telecommunications equipment, or related hardware, software, or services.

Please submit your proposal no later than May 26, 2006 to:

Dr. Lance A. Leventhal, Program Chairperson
Emulative Systems

PO Box 1258
Rancho Santa Fe, CA 92067
Tel: 858.756.3327

Fax: 858.756.2656

Email: lance@advancedtcasummit.com

Proposal Format - The proposal should be **one page** and consist of:

- An abstract
- A brief outline of major topics
- A short biography of the presenter

Acceptance will be made by June 30, 2006.

Proceedings - A digital copy of the paper or visuals for publication in the Summit Proceedings must be provided by September 15, 2006.

2. Industry News

Interphase, Emerson/Artesyn Technologies, Motorola, SBS Technologies/IBM, Mercury Computer Systems/Texas Instruments, BlueSlice Networks, Ericsson Power Modules, AudioCodes, IDT/RadiSys, Intel Developers' Forum

Interphase has announced the availability of its SlotOptimizer 364G AdvancedMC Quad Gigabit Ethernet Card. It is the first in a comprehensive portfolio of AdvancedMC products and is designed specifically for use in AdvancedTCA and MicroTCA platforms. Features include four independent 10/100/1000 Gigabit Ethernet ports, high-performance Gigabit Ethernet controllers, up to x4 PCI Express 1.0a links, and remote monitoring and control. For more, see www.interphase.com, [AdvancedMC card](#). Contact [Jeannette Hudler](#).

Emerson has purchased Artesyn Technologies for \$11 a share in cash (approximately \$500 million net of acquired cash). Artesyn will become part of Emerson Network Power. The agreement adds Artesyn's embedded power conversion technologies to Emerson's existing enterprise computing, data, and telecommunications customer base. For more, see www.gotoemerson.com, [Artesyn](#). Emerson contact: [Mark Polzin](#), Fleishman-Hillard.

Motorola has launched a new series of communications servers to help equipment manufacturers develop and bring products to market faster and more cost-efficiently. First up is the Centellis 1000, which lets equipment manufacturers and defense prime contractors implement a new MicroTCA platform intended for network core, edge, and access applications. Such applications include WiMAX access points, VoIP access gateways, and cellular base stations. For more, see www.motorola.com, [Centellis 1000](#). Or visit the [Motorola contact page](#).

SBS Technologies has teamed with IBM to launch an AdvancedMC carrier blade for IBM BladeCenter systems. The SBS BCT4-AMC1 can host up to four AdvancedMC modules to create application-specific blades from standard off-the-shelf SBS Telum modules and other third-party AdvancedMC cards. It can be optimized for IMS (IP Multimedia Subsystems) and FMC (Fixed Mobile Convergence) IP-centric applications. For more, see www.sbs.com, [AdvancedMC](#). SBS Technologies contact: HBethoney@sbs.com.

Mercury Computer Systems and Texas Instruments have announced their collaboration on the development of the Mercury MTI-203 AMC (Advanced Mezzanine Card) for WiMAX, a standard for long-distance point-to-multipoint wireless networking. The highly integrated module is designed

to support TI's newly announced WiMAX/802.16e infrastructure solution for wireless applications, which includes software, analog, and RF products from TI. For more, see www.mc.com, Texas Instruments. Mercury contact: Leigh McLeod.

Telecom Application for AdvancedTCA. BlueSlice Networks (Montreal, Quebec, Canada) has announced the only commercially available

AdvancedTCA-based Home Location Register (HLR). The ngHLR 3000 is NEBS-3 and ETSI certified and offers carrier-grade 99.999% reliability with no single point of failure. The database is scalable to several million subscriber profiles and supports 2G, VoIP/WiFi, 3G, and IMS in the same platform. It includes an Integrated Authentication Center for GSM and WLAN identification and authentication. The entire system resides in a 14-slot 19" chassis (12 U height).

The ngHLR 3000 offers reduced signaling costs and functionality, performance, and scalability exceeding current market offerings at an order of magnitude lower cost. For more information, see www.blueslice.com or contact Noah Bloom.

--Lance A. Leventhal

Ericsson has introduced the best-in-class power modules in a quarter brick format, the Ericsson Power Module PKM4000BPI series.

Input is up to 380W. The modules are the world's first intermediate bus converters to provide such a high power density and power level in combination with an input voltage range of 36-75V. They deliver up to 33A at 12V. The modules are especially suited to customers building systems using AdvancedTCA. For more, see www.ericsson.com, Best-in-class power modules. Contact Patrick le Fevre, Marketing Director, Power Modules.

AudioCodes has announced the availability of a newly developed VoIP Media Gateway cPCI Blade that offers up to three T3 interfaces,

the TP-6310/T3. It supports 672-2016 independent Low Bit Rate (LBR) universal channels. Protocols include SIP, MGCP, TGCP and Megaco, in addition to AudioCodes' API over IP (TPNCP). It flexibly manages distributed gateway architecture for wireline, wireless, cable, and fixed-mobile-convergence applications. It is available in several configurations. For more, see www.audiocodes.com, VoIP gateway, then click on the Mar. 13, 2006, entry for Triple T3. Contact Shirley Nakar.

As part of an IDT-RadiSys ATCA-oriented partnership, RadiSys has developed a daughter card featuring the IDT 75K72234 NSE - a dual

Network Processing Forum (NPF) look-aside (LA-1) interface to accompany its Promentum ATCA-7010 10 Gbps packet-processing module. Customers can use the combined solution to boost packet processing performance with minimal design effort. It can be used as a designer's evaluation platform or as an off-the-shelf system. For more, see www.idt.com, RadiSys ATCA. IDT contact: webmaster@idt.com.



ATCA fashion show featured at Intel Developers' Forum. Intel Developers' Forum (held around the world) has become a major series of technology events. This year's Spring version in San Francisco (March 7-9) had a special treat for ATCA proponents, namely "the first ever ATCA fashion show" presented as part of the keynote by Pat Gelsinger, Senior VP and General Manager of Intel's Digital

Enterprise Group.

The fashion show, complete with music and models sashaying down the platform (okay, so they were fully dressed engineers) included products from the following leading ATCA vendors:

ADLINK, Adtron, Artesyn, Continuous Computing, Diversified Technology, Fujitsu Siemens Computers, GE Fanuc, HP, Intel, Kontron, Motorola Embedded Communications Computing, PFU Systems, Portwell, RadiSys, and Znyx.

Gelsinger provided introductions such as:

- "...Jeffrey's stepping out in style with the HP bc2100."
- "check out Randall and his fetching 5320 ATCA note card with not one, not two, but three 64-bit 133-Megahertz PMC interfaces and an intelligent platform memory controller."
- "Chuck will turn heads with this Motorola ATCA 717 with the 1.8 GHz Intel Pentium M processor and 16-port managed gigabit Ethernet switch..."

Perhaps you had to be there to really appreciate it! For those without a keen sense of humor (or perhaps those with one), the key quotes were:

- "Now we're seeing that the maturity of ATCA, along with this transition to services over IP, is creating excitement, enthusiasm, and growth in the ATCA market segment. In fact, IDC predicts that ATCA will be a \$6 billion hardware industry by 2010. We're also seeing the commercial deployments from megacarriers like NTT DoCoMo and Korea Telecom as they retool their infrastructure with ATCA."
- "Intel, as well, is delivering ATCA products to the marketplace."
- "We've also launched several third-party vendor validation centers around the world, such that carriers and operators and TEMs can bring their products in to do testing and interoperability. We have those centers built up in China, Belgium, and the United States to allow the adoption and acceleration of ATCA into the infrastructure of tomorrow."

Surely a good sign for ATCA to have such a prominent position in an IDF opening keynote!

--Lance A. Leventhal

3. Contributing Editors' Perspectives

- Ernie Bergstrom, Crystal Cube Consulting
- Chuck Byers, Lucent Technologies
- Lars-Johan Larsson, Modt AB

CompactTCA: A Transitional Standard Platform, by Ernie Bergstrom,
Crystal Cube Consulting

CompactTCA is a bridge between AdvancedTCA and its predecessor CompactPCI. The idea is to combine the most popular CompactPCI specifications to increase performance and flexibility. The new specification appeals to CompactPCI customers who have not yet outgrown that platform. See the full article at [CompactTCA](#).

Key Features of the Completed MicroTCA Specification, by Chuck Byers,
Lucent Technologies

The MicroTCA specification is approaching completion. After almost 16 months of work, the 490-page Draft 0.9 includes nearly all the substantive content. A PICMG internal review is in progress, and final publication of Draft 1.0 should

occur in mid May 2006. See the full article at [KeyFeatures](#).

Market Acceptance of AdvancedTCA, by Lars-Johan Larsson, Modt AB
AdvancedTCA has been out in the market for several years. However, it is obviously still too early to determine whether it will succeed. A major difficulty with embedded hardware standards is the long gap between definition and volume business. See the full article at [MarketAcceptance](#).

4. 2006 Annual Sponsors

- Artesyn Technologies
- Diversified Technologies
- Positronic Industries
- RadiSys

	<p>Artesyn Technologies as an organization has been directly involved in the creation and development of the ATCA and AMC standards. Having actively embraced this new technology and combining it with our core values of quality and expertise, we aim to provide the foremost capability in the industry.</p>
	<p>Diversified Technology, Inc. has an extensive history of delivering computing solutions to the communications market and now builds on that by offering an increased line of performance-driven solutions based on the latest processing and switched fabric products. This line of AdvancedTCA systems addresses the needs of the core and edge application markets, while also delivering unique features designed to handle the next generation services of advanced voice, data and mobile applications.</p>
	<p>Positronic has been providing connector solutions worldwide since 1966. Positronic was proud to be involved in development of the ATCA Zone 1 power connector. The Zone 1 connector provides dual redundant connections for power, system management, and high voltage circuits to ATCA slots. Customer support through detailed catalogs, easy-to-use web site, technical customer service in your area.</p>
	<p>RadiSys Corp., a leading supplier of advanced embedded systems, underscored its commitment to the AdvancedTCA® market with its expanded Promentum™ family of AdvancedTCA-compliant products and new alliance partner program. RadiSys is a strategic supplier of proven, tested; modular platforms that help TEMs reduce costs and development time associated with designing next generation communications equipment.</p>

Want to join Artesyn, DTI, Positronic, and RadiSys as one of the 2006 Annual Sponsors? Email Rudy Gentry for more information, or call him at 707.987.2153.

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5. Features

- Paul Fleming, Hewlett-Packard
- Justin Moll, Elma Bustronic
- Duane Sword, Empirix
- Johan Wall, Enea

Building a Comprehensive Telecom Framework, by Paul Fleming, Hewlett-Packard

Today, the convergence of Information Technology (IT) and telephony has become real. An important observation is that it extends to companies that once were in completely different businesses, namely content companies, service providers and telecom companies, information technology companies, and equipment manufacturers. See the full article at [TelecomFramework](#).

Taking AdvancedTCA Beyond the Telecom Space, by Justin Moll, Elma Electronic

AdvancedTCA was developed primarily to serve the telecom central office (CO) market. It has the advantages over proprietary approaches of lower costs, scalability, multiple vendors, and much more. However, AdvancedTCA can serve a much larger market. See the full article at [BeyondTelecom](#).

Making IMS Work in Your Network, by Duane Sword, Empirix

IP Multimedia Subsystem (IMS) simplifies the deployment of new services by providing a common set of content-rich multimedia applications across any IP-enabled network including DSL, cellular, cable, and WiFi. However, although the idea is to simplify the network, migration to IMS is complex and error-prone. See the full article at [MakingIMSWork](#).

Is It Time for a Summit on Device Software Optimization? by Johan Wall, Enea

To solve the challenges facing developers of AdvancedTCA, AdvancedMC, and MicroTCA products, leading device software providers such as Enea and Wind River are working together to promote a new paradigm: device software optimization. See the full article at [TimeForSummit](#).



AdvancedTCA Technology and Solutions Showcase

- **Can I afford ATCA** or can I afford not to?
- **Do ATCA and microTCA** give me the performance I need now, what about the future?
- **Can true integration really happen?**
- **What makes an operating system carrier-grade?**
- **What's next for ATCA?**

[Put Your Mind At Ease](#)

RadiSys along with Intel, Wind River, and our Solutions Associates answer those puzzling and controversial questions being discussed in AdvancedTCA circles everywhere.

REGISTER NOW - radisys.com/seminars/atca_2006

6. Financial News

- ON Semiconductor
- RadiSys

ON Semiconductor announced total revenues in the fourth quarter of 2005 of \$341.8 million, an increase of approximately 9% over the previous quarter. Net income was \$43.8 million (\$0.07 per fully diluted share). **For 2005, net income was \$100.6 million**, ending the year with the highest gross margin and the first year of profitability since 2000. For more, see [ON Semiconductor, Q4 2005](#).

RadiSys reported revenues of \$61.9 million for the quarter ended December 31, 2005. Net income was \$4.9 million (\$0.20 per diluted share), versus \$2.8 million (\$0.13 per diluted share) a year earlier. For the year ended December 31, 2005, revenues were \$260.2 million, up from \$245.8 million for the year ended December 31, 2004. Net income for the year was \$16.0 million (\$0.68 per diluted share), compared to \$13.0 million (\$0.59 per diluted share) for 2004. For more, see www.radisys.com, [4th quarter and 2005 financials](#).

7. Newsletter Advertising Rates

- Lead sponsorship of a single bimonthly issue - \$2,000
- Lead sponsorship of 3 bimonthly issues - \$5,000
- Lead sponsorship for 6 bimonthly issues - \$8,000
- Annual sponsorship - \$1,500 (puts your logo and a 50-word statement in the Annual Sponsor section of the current issue of the Newsletter and in an Annual Sponsor section of the Website for one year)
- Banner ads (up to 468 x 60 pixels, less than 20 KB, GIF format; animated) - \$500
- Display ads (text only, no more than 15 lines) - \$300
- Consultant's Corner, classified ads - one issue free (annually); otherwise, \$100/issue, \$250/3 issues, \$400/6 issues
- Consultant's Cards (.jpg file for the card, .doc file for two lines of text that describe your expertise or specialty) - one month at no charge
- Jobs Wanted - complimentary
- Positions Available - free

Contact: Rudy Gentry, rudy@atcanewsletter.com

8. Newsletter Archive

Back issues of this Newsletter are archived in PDF format. See: www.atcanewsletter.com, then click on Archived Newsletters, then click on desired issue.

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