



# MILITARY AND AEROSPACE ADVANCED TCA SOLUTIONS

## RUGGEDIZED QUALIFIED FIELDIED



ATCA-6006



ATCA-2210



ATCA-7220



ATCA-4500



MPCBL-0040

### ATCA SOLUTIONS: IDEAL FOR NETWORK CENTRIC DESIGNS

- Technology leadership in modular, upgradeable form factor
- Manufacturing and engineering expertise
- Proven field deployments
- Taking aim at service

The rugged requirements of military and aerospace applications have often driven system engineers to use expensive, inflexible, proprietary components in order to keep up with the current technologies. Today, the high-performance and bandwidth capabilities of ATCA bring the latest technologies to COTS based applications such as command and control, aerospace surveillance, land mobile communications, and maritime networks that must collect large amounts of data.

### TECHNOLOGY LEADERSHIP

➔ The world's top communications equipment providers choose RadiSys because we offer the safety of market-proven (ATCA) solutions and the freedom of choice that comes with an open standards-based ATCA platform. RadiSys focus is on time to market with leading edge technology. We have close partnerships with key silicon vendors, and understand how x86, DSPs and Network Processors can best be utilized in customers applications. RadiSys gives customers early access to boards based on the latest processor technologies, can quickly integrate these boards into standard platforms and works closely with your design teams to bring your product to market-faster.

RadiSys ruggedized ATCA platforms and blades offer the highest in bandwidth capacities and performance processing making them ideal for network centric applications such as command and control applications, land mobile communications, aerospace surveillance, and maritime networks. Solutions are rugged enough to handle the toughest environmental factors and built with qualified, fielded COTS components designed to maximize device performance, provide five 9s reliability, and deliver next-generation technology-today.

## MANUFACTURING AND ENGINEERING EXPERTISE

With features such as conformal coating, RTV and ability to modify mechanicals to deal with vibration, RadiSys ATCA solutions are rugged enough to handle the toughest environmental factors: shock, vibration, and G-forces, yet are efficient enough to meet application needs for power and heat dissipation. Solutions are rigorously tested and able to integrate with a vast array of existing systems, and because they are built with COTS components, you can reduce cycle time and quickly deploy applications with improved performance.

In addition, RadiSys offers the broadest array of ATCA solutions: everything from complete solutions and chassis, to a multitude of building-block products, all of which are rigorously tested in countless combinations and environmental extremes—and the freedom of choice that comes with an open ATCA platform along with the reliability and capacity you need. Simply put: solutions built with ATCA components give you the reliability and durability you need for mission critical, network centric applications.

## PROVEN DEPLOYMENTS

For more than 20 years, RadiSys has been an undisputed leader in the embedded industry because it understands the market and customer requirements second to none. We bring a rich ecosystem of partners together to address your specific needs. Whether your next application is deployed on ground (fixed or mobile), airborne or sea borne or a complex system design, we will enable you. RadiSys currently has fielded deployments for ATCA in different ruggedized environments like, command and control centers and airborne. We invite you to leverage RadiSys knowledge and its market leadership to design your next application based on open standards based COTS products.

## TAKING AIM AT SERVICE

Because the AdvancedTCA form factor is an open, industry-standard COTS component, your equipment isn't dependent on the support of a single company, which means you can recognize cost savings from increased competition and economies of scale. In addition, with modular components, you can expect easy field upgrades, as well as next generation technology support, and RadiSys has the experience, processes, and tools to help you lower your total costs to market and reduce your product risks. Finally using COTS components means product won't be rendered obsolete when technology changes, giving you the assurance that your equipment will meet the long-life requirements of mil-aero applications. ///

### WHY ATCA?

*Traditionally, military and aerospace COTS applications were limited to mission compute and built with rugged VME or cPCI. These components managed heavy I/O, but their form factor limited networking and processing capability. As military and aerospace have expanded their network centric operations, they have required significantly higher processing and networking capabilities.*

*ATCA is the perfect fit for these requirements. Unlike VPX which is simply an updated version of the VME standard, ATCA was specifically designed to address high density network communications applications and delivers up to 8x the performance of VPX and 40x the performance of VME or cPCI.. In addition ATCA is a broadly adopted standard that has proven its interoperability through 5 years of deployment in the communication segment.*



### ARROW ELECTRONICS, INC.

*Arrow is trained to specifically address the needs of aerospace and defense customers, including providing International Trafficking of Arms Regulations (ITAR) processes and adhering to the Arms Export Control Act. Arrow's expertise and proven processes in design, control of information, product handling, production and change management can provide valued services and reduce the resources needed by companies supplying products or applications to the U.S. military.*



*RadiSys is a Premier Member of the Intel Embedded Alliance, a community of embedded developers and solution providers.*



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