



## PMC-429 32 Channel ARINC429 Conduction Cooled Test & Simulation Module for PMC

AIM-USA is proud to introduce the new PMC-429, a Rugged, Conduction Cooled, Ultra-High Performance, PCI Mezzanine (PMC) interface module. It provides up to 32 ARINC429 channels, each independently configurable to operate as Transmit or Receive, and to operate at the ARINC429 high speed (100 Kbit/sec) or low speed (12.5 Kbit/sec) bit rates.

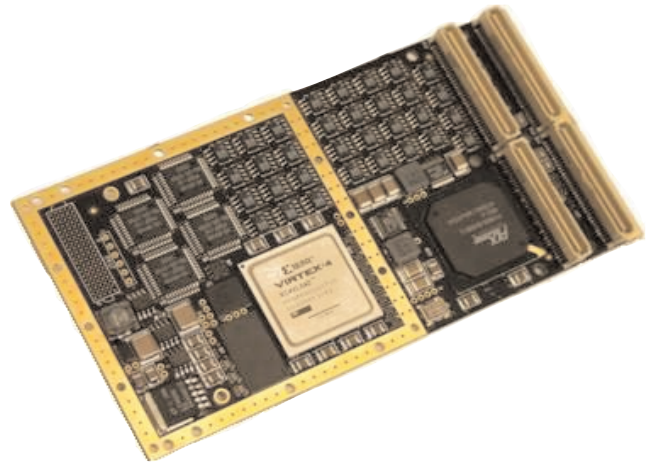
In support of rugged, embedded applications, the PMC-429 is fully compliant with the ANSI/VITA 20-2001 (R2005) primary and secondary conduction cooled interfaces. The module also supports an extended operating temperature range of -40°C to 85°C.

All ARINC429 channels are accessible through the rear PMC (P14) connector. If the optional front panel assembly is used all signals are additionally accessible via a front panel 68-pin VHDCI connector.

An onboard IRIG-B time code encoder/decoder allows the module to be synchronized to other PMC-429 modules, or third party equipment with 1 microsecond accuracy.

For external notification of ARINC429 bus events, a TTL trigger output signal is provided.

The PMC-429 modules utilize a simple and reliable FPGA based hardware architecture providing a flexible platform which supports the highest data throughput rates in the industry. The PMC-429 modules are configured with 128 MBytes of onboard memory, providing ample capacity to support high volumes of data and complex simulations.



PMC-429-32-CC

The PMC-429 transmitter channels support common Rate Oriented, Block, and Acyclic Label transmission modes and full error injection capabilities for test and simulation applications.

The PMC-429 receiver channels support Label/SDI selective receive modes and extremely flexible and capable triggering and filtering mechanisms.

Board Support Packages (BSP) for Windows, Linux, and various real-time systems (VxWorks, Green Hills, LynxOS, ...) are available. Drivers, sample code, and high level C and C++ application programmer's interface (API) libraries including full documentation and sample code are provided. API Library adaptations supporting C#, Python, and other common programming languages are available upon request.

**For more information contact:**

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