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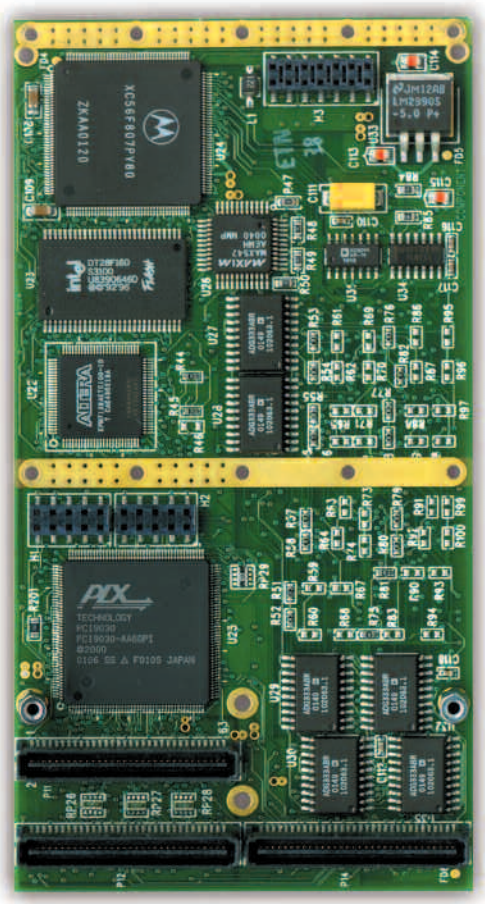
Find the *Kontron / Thales PMC-DAADIO* at our website: ***Click HERE***

THALES



PMC-DAADIO

Intelligent Analog & Digital I/O PCI Mezzanine Card (PMC)



> Eight Differential Analog Input Channels
- 12-bit resolution with no-missing codes
- ±3V input channels
- Greater than 3 MSPS (Mega Sample Per Second) aggregate on up to 4 simultaneous sampled channels
- Trigger on Zero-Crossing
- 200 KΩ input impedance

> Eight Single-Ended Analog Outputs
- 12-bit resolution
- 25 mA output drive capability
- Bipolar Output ±3V with 5 µS settling time
- 3V/µS slew rate

> 18 General Purpose TTL Digital I/O
- Programmable direction control for each bit
- Interrupt capability on level or falling edge

> 64-bit Counter Input

> 64-bit Timer Output: 40 MHz resolution

> On-board DSP with OnCE Port

Motorola DSP56F807 Digital Signal Processor with external program memory and shared memory interface. An On-Chip-Emulator (OnCE) port enables the user to develop, download and debug DSP application code.

> 3.3V signaling, 5V tolerant PCI bus

> Support for VxWorks

> Air- or Conduction-Cooled Versions

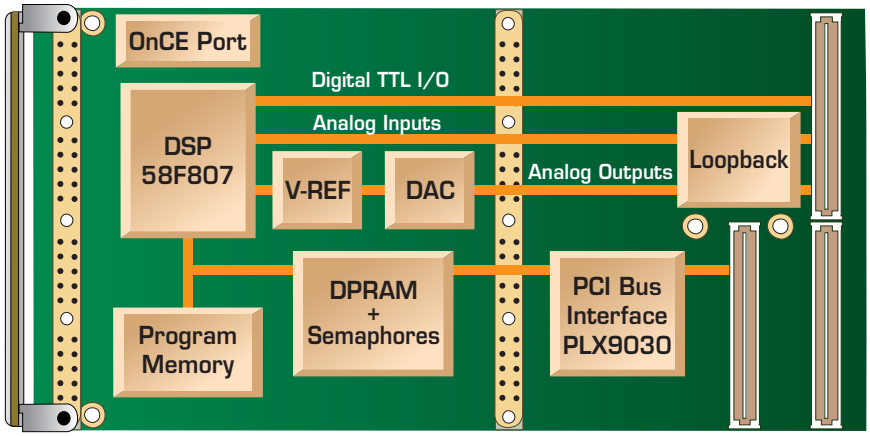
PMC-DAADIO Intelligent Analog & Digital I/O PCI Mezzanine Card (PMC)

Technical Features

Offering analog and digital I/O ports on a single PMC module, the PMC-DAADIO complements Thales Computers' extensive choice of COTS and standard mezzanine cards for VME or CompactPCI SBCs in commercial or harsh environments. This board is ideal for applications requiring intensive digital and analog I/O in harsh environments, such as digital radio, fire control systems, system monitoring, and closed-loop control systems.

The PMC-DAADIO is an intelligent Motorola DSP56F807-based PMC board that provides high-speed analog and digital I/O for controlling and monitoring a wide range of external functions with a minimum amount of servicing required by the PMC host's processor. Its design allows the user to add control software into the DSP56F807's internal EPROM making the board operate autonomously without any intervention from the PMC host. The user may also use DSP software that makes it operate as a simple PMC target that performs actions based on simple commands from the PMC host. External program memory and 64K words of external data Dual Port RAM (DPRAM) provide the code developer with full DSP memory capacity. The board runs over the full -40°C to +85°C industrial temperature range.

A rugged conduction-cooled VITA-20 recommendation compliant version is available.



General Architecture of the Intelligent Analog and Digital I/O PMC

Overall Dimensions	
Single PMC	144 x 74 mm - One slot
PCI bus Interface	
	32-bit - 33 MHz PCI9030 Target PCI controller from PLX 3.3V signaling, 5V tolerant
Power Requirements	
	+5V, ±5% +3.3V, ±5% +12V, ±5% -12V, ±5%
Power Dissipation	
	Typical: 3.9 Watts

Environmental Specifications

	SA	RA	RC
Temperature range			
Airflow	1.2 m/s	1.8 m/s	NA
Operating	0° to +55°C	-40° to +75°C	-40° to +85°C
Storage	-45° to +85°C	-45° to +100°C	-45° to +100°C
Conformal Coating	Optional	Standard	Standard
Relative Humidity	90% noncondensing	95% noncondensing 10 cycles 240 hours	
Mechanical			
Vibration Sine	5-200 Hz - 2g Peak	5-2000 Hz - 2.5g Peak	5-2000 Hz - 5g Peak
Vibration	0.01 g^2/Hz 10-40 Hz	0.04 g^2/Hz	0.1 g^2/Hz
Random	0.0007 g^2/Hz 100-200 Hz	with a flat response to 1,000 Hz 6 dB/Oct roll-off from 1 KHz-2 KHz	
Shock	10g Peak 16 ms Half Sine Pulse	40g Peak 20 ms Half Sine Pulse	
Bumps		40g Peak 6 ms Half Sine Pulse 3 bumps/sec and 1,000 bumps/direction	
Altitude	-1,000 to 15,000 ft	-1,000 to 33,000 ft	-1,000 to 50,000 ft

ORDER CODE

PMC-DAADIO- ☐ **000** ☐

	SA	RA	RC	
Environment Class: Standard (Air)	X			.....SA
Rugged Convection-Cooled (Air)		X		.....RA
Rugged Conduction-Cooled			X	.....RC
Conformal coating	X	Default	Default	V

Add code V only when not default

With AFAQ ISO 9001 2000 Version Certification, Thales Computers guarantees Total Customer Satisfaction.

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