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- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
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- ITAR CERTIFIED SECURE ASSET SOLUTIONS

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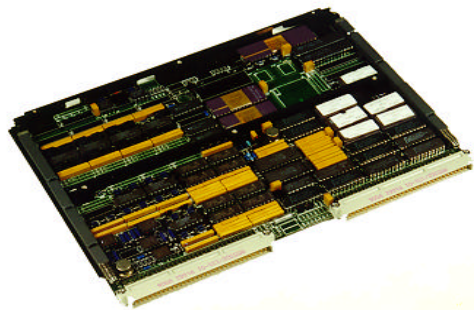
Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)

## ADC (Analog DC)

Combination DC Differential A to D, D to A and Discrete I/O

The VISTA Controls family of Rugged 6U VME I/O cards have been designed to provide system engineers with maximum flexibility and reliability to meet their I/O requirements with Off-The-Shelf Solutions.



**APPLICATIONS**  
Navigation Systems  
Fire Control Systems  
Flight Control Systems  
Sight-head Stabilization  
Data Collection  
Communication  
C3I

The **VISTA ADC (Analog DC)** card provides the User with a very unique mix of Input/Output. This allows the incorporation of a variety of I/O in the smallest number of cards possible.

The **VISTA ADC (Analog DC)** card serves up 15 channels of DC Differential inputs, 6 channels of DC outputs and 16 channels of 28V Discrete I/O (all on one single card).

Factory programmable 2nd order anti-alias filters are available for the DC inputs, and first order filters for the DC outputs. This feature can provide the User with that extra degree of control that will make the difference in your program.

The Analog ( DC ) board is the ideal single board solution for airborne, shipboard, land vehicle and other harsh environment applications.

At the request of the customer, VISTA can offer modifications to the listed features which could satisfy that totally unique application requirement.

### FEATURES:

Dual Port SRAM: 256 Kbytes

VME Interface:

• 6U VMEbus Slave A24/D16

• Programmable interrupter: 7 levels

Power Consumption: (typical)

5V @ 1.55 amps,  $\pm 12V$  @ 100mA, & 28VDC @ 30mA

Mechanical:

• IEEE 1101.2 single-slot @ 0.8 inch centers

• Wedge locks, Integral heat sinks and stiffeners

• Front Panel on Air Cooled versions

» IEEE 1101.1 Compliant

• Weight: 22.4 oz ( Conduction Cooled )

Built-In-Test Circuitry:

• For Continuous and Initiated Bit Operation

### 15) Channels of Differential DC Analog-to-Digital Converter

- Differential Inputs;  $\pm 10V$  Standard
- Factory programmable 2nd order anti-alias filters:
  - 0, 100 & 1000Hz Standard
- Converts every input at over 3000 samples per second
- 12 bit resolution

### (6) Channels of DC Outputs

- $\pm 10 V$  peak outputs Standard
- Some channels can be converted to current output with mode (for use servo-valves etc...)
- 10 mA capability
- 12 Bit Resolution

### (16) Channels of 28volt Discrete I/O

- 28VDC low-side drivers
- 100mA sink current per channel
- Inputs are capable of sensing 28V, Open Circuit, and GND

### Automatic Data Sequencer

- Stores input values to SRAM
- Programmable sample rate
- Random reads also available

### ▪ System Features

#### ▪ *VxWorks Drivers available*

(call for other OS support)

#### ▪ *Conduction Cooled, -40°C to +75°C*

*Operating Temperature*

(Class 3; see *Environmental Classifications*)

#### ▪ *0.1 g<sup>2</sup> / Hz Vibration*

*per Mil-Std-810E,*

(Class 3)

#### ▪ *40G Shock*

*per Mil-Std-810E,*

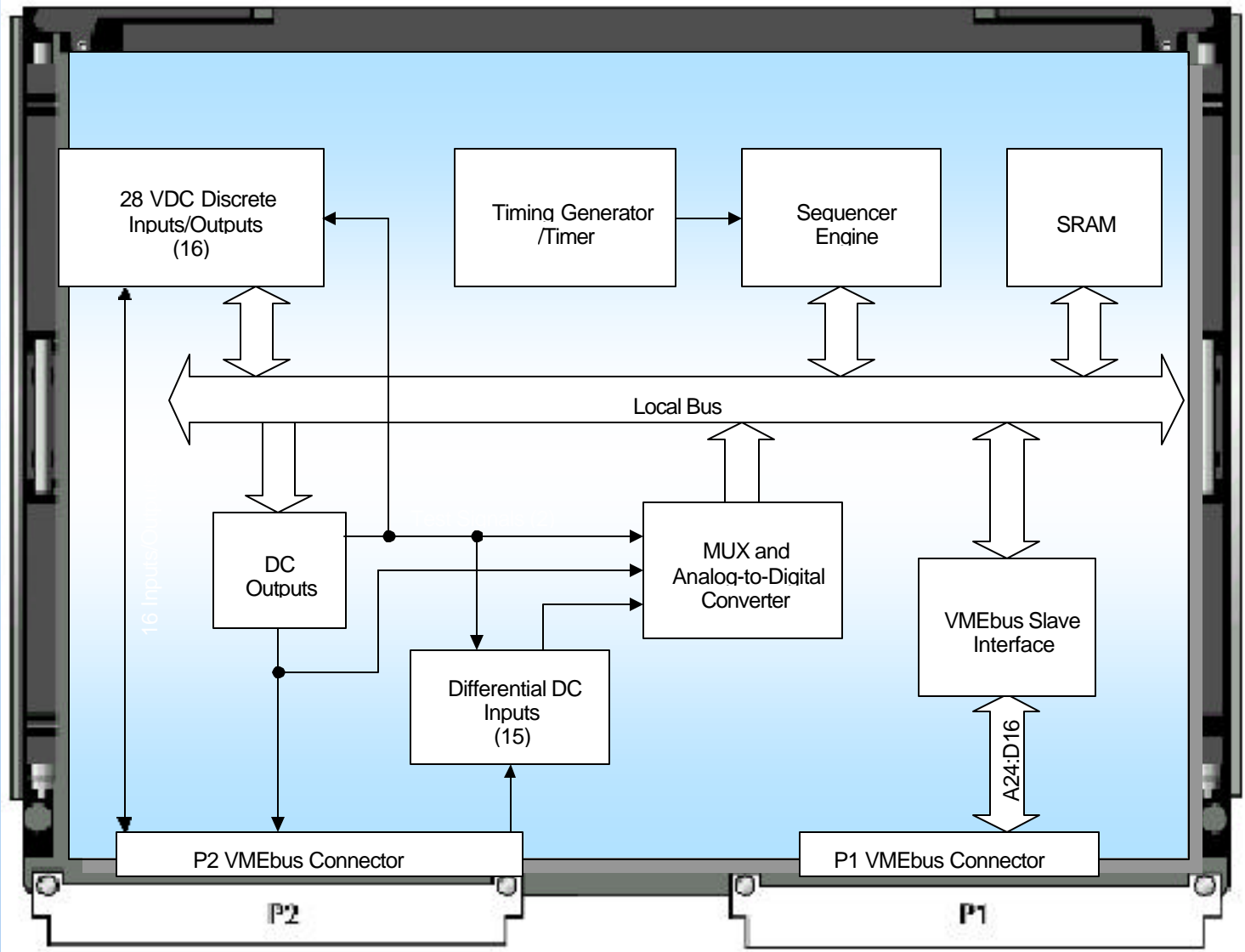
(Class 3)



27825 Fremont Court  
Santa Clarita, CA 91355  
(661) 257-4430 phone  
(661) 257-4782 fax

# ADC (Analog DC)

**Combination DC Differential A to D, D to A and Discrete I/O**



Order Code	Input Filter	Input Voltage +/- VDC	Input Chan. 0-3	Imped. Chan. 4-14	Output Filter	Output Voltage +/- VDC	Primary Power
100	None	10V	100K	100K	None	8V	12V
101	None	10V	100K	100K	None	10V	15V
102	10Hz	10V	100K	100K	100Hz	10V	15V

**Ordering Information:** (call if your configuration is not shown)  
 ADC - CLx - yyy  
 Order Option Code From 1st Column of Table  
 Environmental Class  
 1= laboratory, convection cooled  
 2= rugged, convection cooled  
 3= rugged, conduction cooled  
 4= Mil Temp, conduction cooled  
 (see environments table in catalog for more detail)

\*See Order Option Sheet for more detailed information on options

R031501





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