

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *DynamicSignals / Kinetic Systems V208-YD22* at our website: *Click HERE*

V208

16-bit, 100,000 Sample/sec ADC Subsystem

The V208 is a single width, C-size, register-based, VXIbus module that provides high-speed, high-resolution, analog-to-digital conversion.



This ADC supports 2048 MUX-bus channels of signal conditioning

APPLICATIONS

Automotive body engineering tests
Automotive powertrain testing
Automotive safety tests
Aircraft engine testing
Shock/vibration tests
Rocket engine testing
Wind tunnel data acquisition
Satellite testing

FEATURES

- 100 ksamples/s, aggregate sample rate; 200 ksample/s options available.
- 16-bit resolution and differential inputs
- Incorporates MUX-bus™ expandable to 2048 channels and optional Digi-bus™ and requires no intermodule cabling
- Fully programmable sampling and triggering with separate limit check on each channel
- Precision on-board reference for end-to-end calibration
- Optional 4 or 16 Mbyte memory

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

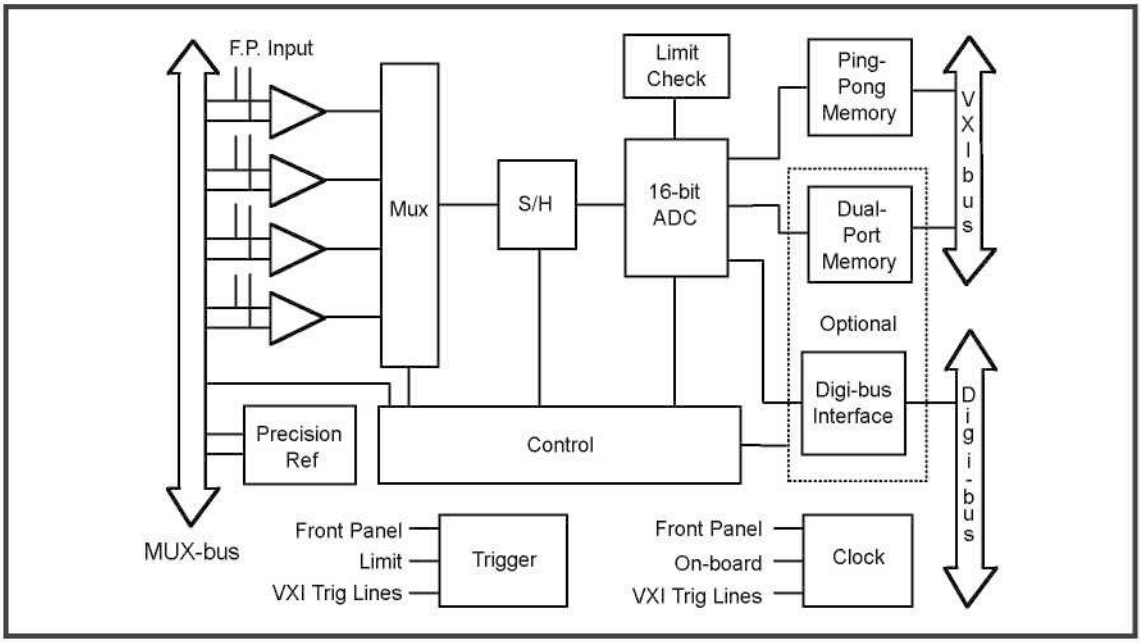
GENERAL DESCRIPTION

The V208 is a single width, C-size, register-based, VXIbus module that provides high-speed, high-resolution, analog-to-digital conversion. This module is intended for use with the KineticSystems line of VXIbus signal conditioning modules that incorporate the analog MUX-bus™ (e.g., Models V243, V246, V252, etc.) allowing extremely flexible system configurations without the need for intermodule cabling.

The V208 provides four instrumentation amplifier inputs, allowing high data throughput even with a large number of input channels. When used with 11 V243 signal conditioning modules, up to 1056 channels can be converted with each channel having its own limit-checking value. Up to 4 preconditioned signals can be monitored by the V208 without any signal conditioning modules.

This product provides a high degree of flexibility in configuring an analog sampling system. With the optional multibuffer memory, data can be taken at high sample rates with conventional controllers. If the Digi-bus™ option is used, the converted data can be forwarded to the V165 Digital Signal Processor or other modules supporting this protocol.

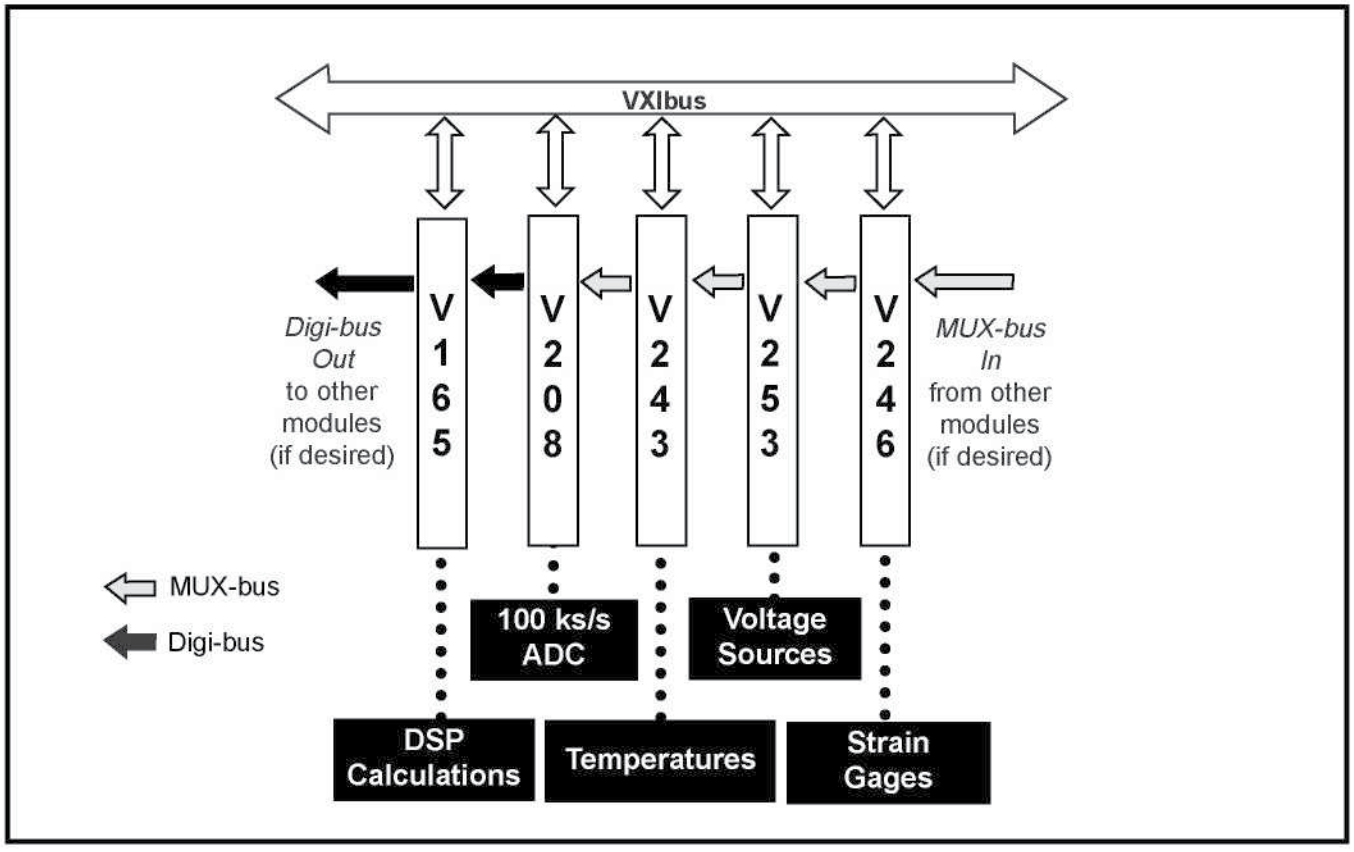
The V208 supports both static and dynamic configuration. It may be accessed using A32/A16, D32/D16 data transfers.



Item	Specification
Input Channels Number Source	 4, expandable to 2048 via MUX-bus Front panel or MUX-bus on P2 connector
Analog Signal Input Type	Differential
Analog Input Range	±10.24 V
Input Impedance	Greater than 20 MQ
Large Signal Analog Bandwidth (-3 dB)	Greater than 100 kHz
Resolution	16 bits, monotonic over operating temperature range
DC Accuracy Differential non-linearity Integral linearity No missing codes	 0.006% of FSR 15 bits Guaranteed
Dynamic Performance Maximum conversion rate Crosstalk Total harmonic distortion	 100 ksample/s (V208-Yxyz options), 200 ksamples/s (V208-Zxyz options) -90 dB -90dB(@100kHz)

Sample Clock	
Internal source	On board, crystal controlled
Frequency choices	11 steps from 100 Hz to 200 kHz (1, 2, 5, ... sequence)
External sources	Note: 100 kHz is the highest useable rate for the V208-Yxyz options)
Duty cycle	TTL signal to 200 kHz
Backplane source	50%
	1 of 8 trigger lines on VXIbus P2 connector
External Trigger	
Source	Negative-going TTL signal
Minimum value	50 ns
Limit Checking	Level, ± slope
Resolution	8 bits
Maximum value	±10.16V
Calibration	Precision 10 V reference on board, bussed to adjacent signal conditioning modules via MUX-bus for end-to-end calibration
Connector Type	Front panel BNCs and SMBs
Power Requirements	
+5V	3.3 A (without multibuffer), 4.4 A (with multibuffer)
-5.2 V	66 mA
+24 V	130 mA
-24 V	150 mA
Environmental and Mechanical	
Temperature range	
Operational	0°C to +50°C
Storage	-25°C to +75°C
Relative humidity	0 to 85%, non-condensing to 40°C
Cooling requirements	10CFM
Dimensions	340 mm x 233.35 mm x 30.48 mm (C-sized VXIbus)
Front-panel potential	Chassis ground

A Typical Mux-bus Configuration (showing the optional Digi-bus connection)



The V208-YD22, -YD32, -ZD22 and -ZD32 options include multibuffers with pre-trigger capability. These buffers can be used in a two-port fashion, allowing one buffer segment to be filling while another segment is being read, maximizing system throughput. In addition, these buffers, under software control, can be used as circular memories for transient capture. In this mode the buffer size as well as the number of post-trigger samples can be selected.

RELATED PRODUCTS

Model 5919-Z1A Connector—SMB, Cable-type

ORDERING INFORMATION

MODEL	DESCRIPTION
V208-YA12	16-bit, 100,000 Sample/second ADC Subsystem
V208-YD22	16-bit, 100,000 Sample/second ADC Subsystem with 4 Mbyte Multibuffer with Pre-Trigger
V208-YD32	16-bit, 100,000 Sample/second ADC Subsystem with 16 Mbyte Multibuffer with Pre-Trigger
V208-ZA12	16-bit, 200,000 Sample/second ADC Subsystem
V208-ZD22	16-bit,200,000 Sample/second ADC Subsystem with 4 Mbyte Multibuffer with Pre-Trigger
V208-ZD32	16-bit,200,000 Sample/second ADC Subsystem with 16 Mbyte Multibuffer with Pre-Trigger
V208-PD22	16-bit, 200,000 Sample/second ADC Subsystem with 4 Mbyte Trans Buffer
V208-0001	Digi-bus factory upgrade

Updated October 24, 2005

Copyright © 2005 KineticSystems Company, LLC. All rights reserved.

KineticSystems Company, LLC

900 N. State St.
Lockport, IL 60441-2200

Toll-Free (US and Canada):
phone 1-800-DATA NOW
1-800-328-2669

Direct:
phone +1-815-838-0005
fax +1-815-838-4424

Email:
mkt-info@kscorp.com

To find your local sales representative or distributor or to learn more about KineticSystems' products visit:

www.kscorp.com

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP