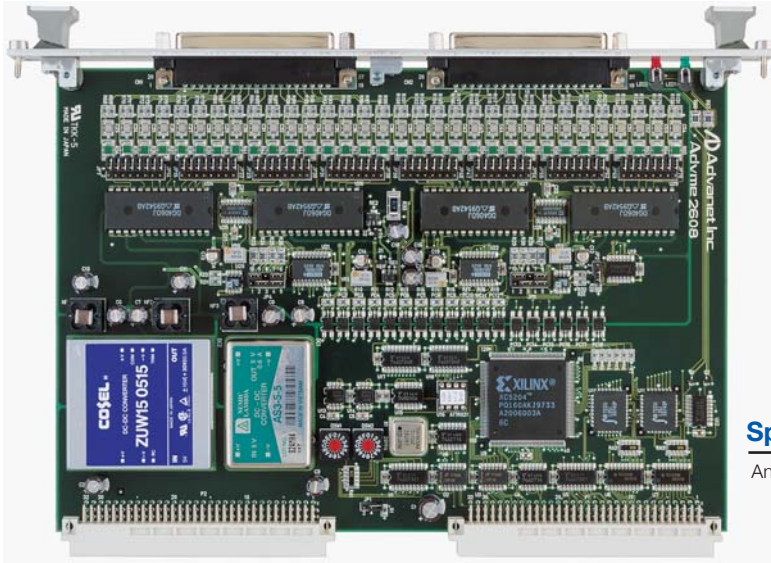


Advme 2608

64-ch 16-bit A/D Board



Features

- 16-bit resolution A/D converter board with 64 singled-ended and 32 differential input channels
- Jumper switch can be used to set the input range for all channels at once to one of the following ranges: $\pm 10V$, 0 to 5V or 0 to 10V
- High resolution (16-bit) and multiple channels (64 channels)
- Input channels are isolated from the VME bus
- Internal state machine automatically performs A/D conversion, so there is no burden on the CPU
- Built-in pacer clock means A/D conversion can be periodically performed
- Built-in 512-word FIFO
- Interrupt can be issued after scanning is completed
- Operates from a single +5V power supply by VME bus
- LED lamp indicates A/D conversion in progress and bus access
- C-language sample program provided
- Device driver for VxWorks available (option)

Specifications

Analog input

- No. of channels : 64 channels (single-ended) or 32 channels (differential) (use short pin to set all channels at once)
- Input range : Standard: $\pm 10V$, 0 to 5V, 0 to 10V
(use short pin to set all channels at once)
*0 to 20mA is available as an option when placing an order
- Input impedance : Typ. $1M\Omega$
- Input filter : 500Hz (-3dB)
(Other cutoff frequencies are optional when placing an order)
- Input connector : Two 37-pin DSUB female connectors
- FIFO : 512 words
- Pacer clock : Minimum 1ms cycle,
Can be set in 1ms step increments up to 1sec.

A/D conversion

- Resolution : 16-bit (15-bit no-miss code is guaranteed)
- Trigger mode : Six A/D conversion trigger modes
 - 32-channel batch conversion mode using program
 - 64-channel batch conversion mode using program
 - 32-channel batch conversion mode using external clock
 - 64-channel batch conversion mode using external clock
 - 32-channel continuous scan mode using pacer clock
 - 64-channel continuous scan mode using pacer clock
- Gain adjustment : Gain adjustment trimmer common to all channels
- Offset adjustment : Offset adjustment trimmer common to all channels
- Overall accuracy : $\pm 0.1\%$ (F.S. at 25°C)
(including gain error, offset error and linearity error)
- Temperature characteristics : Typ. $\pm 50\text{ppm}/^\circ\text{C}$, Up to $\pm 100\text{ppm}/^\circ\text{C}$
- Conversion time : Up to 30 μs per channel
 - 960 μs (64-channel batch conversion)
 - 480 μs (32-channel batch conversion)

Isolation

- Isolation method : Photo-coupler (between analog and digital circuits)
- Withstanding voltage : Between input and system: AC500V for one minute
Between input and channels: non-isolated

Bus interface

- VMEbus Revision C.3 compliant
- A16: AM codes 29 and 2D D16: D08 (E0)
- Power requirements : $5V \pm 5\%$ (supplied by VME bus) 0.76A

Board size (excluding protrusions)

262mm x 172mm x 20mm Double height, single width

Weight : TBD



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Note: The following specifications and product appearance are subject to change for enhancement without notice.



ISO9001
 Certification: No.4016-1995-AQ-KOB-Rv4

ISO14001
 Certification: No. EMSC-1426

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