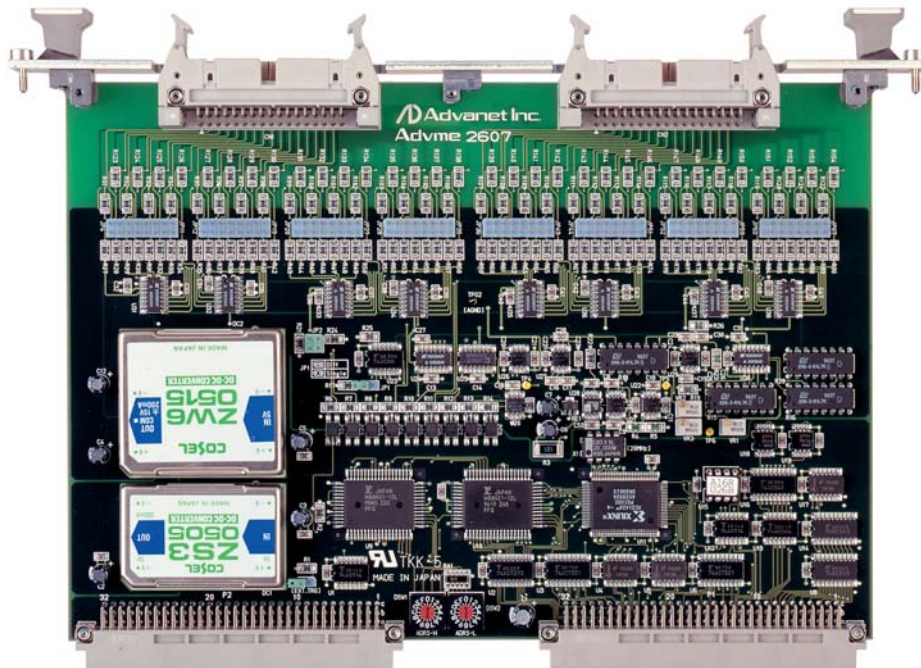


# Advme 2607

## Isolated 64-ch A/D Board



### Features

- 12-bit resolution, low-cost analog input board with 64-channel single-ended and 32-channel differential input
- Jumper setting 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 (4 to 20mA setting is available as an option)
- Equipped with 64 single-ended and 32 differential input channels, and input is switched between single-ended and differential for all channels at once
- No isolation between input channels, but analog circuits and digital circuits are isolated by photo-coupler
- Channels can be switched automatically using a multiplexer for sequential A/D conversion
- Conversion time of 1920 $\mu$ s for 64-channel batch conversion, and 960 $\mu$ s for 32-channel batch conversion
- Operates from a single +5V power supply supplied by VME bus
- Device driver for VxWorks available (option)

### Specifications

#### Analog input

- No. of channels : 64 channels (single-ended)  
32 channels (differential)
- Input range : Standard:  $\pm 10V$ , 0 to 10V, 0 to 5V  
Option: 4 to 20mA
- Input impedance : Typ. 1M $\Omega$
- Input filter : 1.6K $\Omega$  -3dB
- Input connector : Two MIL-type dual-row 34-pin headers

#### A/D conversion

- Resolution : 12-bit
- Input mode :  $\pm 10V$  0H to FFFH(-10.24 to +10.24V)  
0 to 10V 0H to FFFH(-0.24 to +10.24V)  
0 to 5V 0H to FFFH(-0.06 to +5.06V)  
4 to 20mA 0H to FFFH(-0.95 to +5.05V)
- Overall accuracy :  $\pm 0.1\%$  (F.S. at 25°C)
- Conversion time : 30 $\mu$ s per channel  
1920 $\mu$ s (64 channel batch conversion)  
960 $\mu$ s (32 channel batch conversion)

#### Isolation

- Isolation method : Photo-coupler (between analog and digital circuits)
- Withstanding voltage : Between input and system: AC1500V for one minute  
Between input and channels: non-isolated

#### Bus interface

- VMEbus Revision C.3 compliant
- A16,D16,D08(E0)
- Accessible using AM codes 29H and 2DH
- 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 : 360g(typ.)



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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-RvA

**ISO14001**  
 Certification: No. EMSC-1426

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