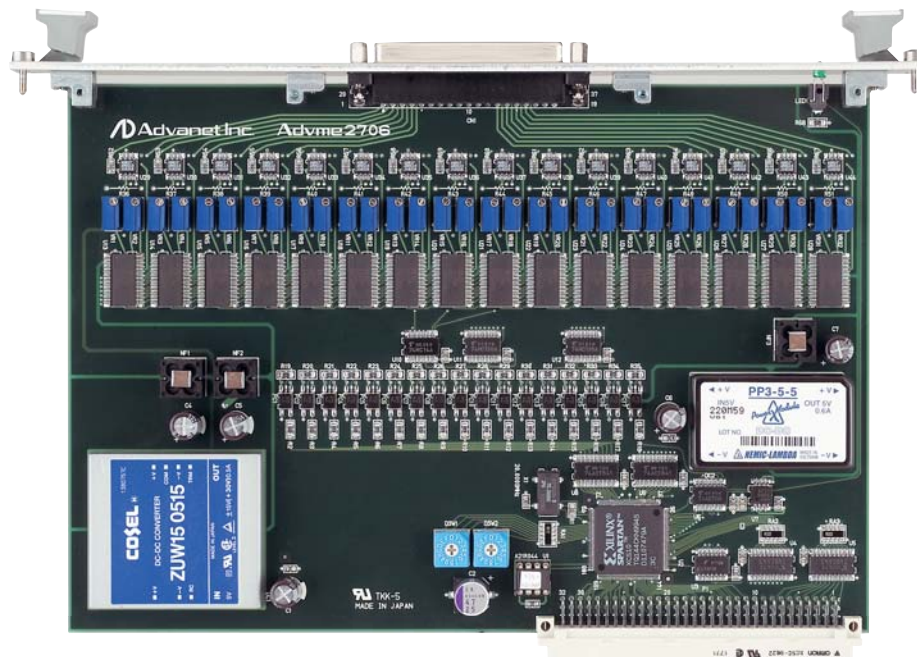


Advme 2706

16-ch 16-bit D/A Board



Features

- 16-bit resolution, VME bus compliant board with a 16-channel D/A converter
- $\pm 10V$ output range that can be expanded to $\pm 12V$ by installing a resistor for output range expansion
- All channels are equipped with an independent trimmer for gain and offset adjustment, allowing highly accurate adjustment for each channel
- High resolution (16-bit) and multiple channels (16 channels)
- Output channels are isolated from the VME bus
- Equipped with an output short-circuit protection function
- Operates from a single +5V power supply by VME bus
- When the power is turned on and when reset is performed, the output voltage is forced to 0V
- LED lamp indicates bus access
- C-language sample program provided
- Device driver for VxWorks available (option)

Specifications

Analog output

- No. of channels : 16ch (single-ended)
- Output range : $\pm 10V$ (can be expanded to $\pm 12V$ by installing a resistor)
- Output current : Up to $\pm 5mA$
- Output impedance : Typ. 0.35Ω
- Output short-circuit protection : Continuous
- Output current : Up to $\pm 5mA$

D/A conversion

- Resolution : 16-bit
- Linearity error : $\pm 1LSB$ (at $25^\circ C$) $\pm 2LSB$ (operating temperature range)
- Differential linearity error : $\pm 1LSB$ (at $25^\circ C$) $\pm 2LSB$ (operating temperature range)
- Monotonicity : 15-bit (operating temperature range)
- Gain error : Up to $\pm 0.01\%$ (with adjustment) Typ. $\pm 0.2\%$ (without adjustment)
- All channels equipped with an independent gain adjustment trimmer
- Offset error : Up to $\pm 0.5mV$ (with adjustment) Typ. $\pm 10mV$ (without adjustment) All channels equipped with an independent gain adjustment trimmer
- Conversion time Up to $1\mu s$ per channel (time to transfer data to DAC)
- Temperature characteristics : Up to $\pm 25ppm/^\circ C$

Isolation

- Isolation method : Photo-coupler (between output channels and VME bus)
- Withstanding voltage : Between output and system: AC500V for one minute
- Between output and channels: non-isolated

Output connector : 37-pin Dsub female connector

Bus interface

- VMEbus : Revision C.3 compliant A16: AM codes 29 and 2D D16: D08 (E0)
- Power requirements : $5V \pm 5\%$ 2.7A (typ.) (received from VME bus)
- Board size : (excluding protrusions) 262mm x 172mm x 20mm
- Double height/Single slot (excluding protrusions such as connectors)
- 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-K0B-Rv4

ISO14001
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