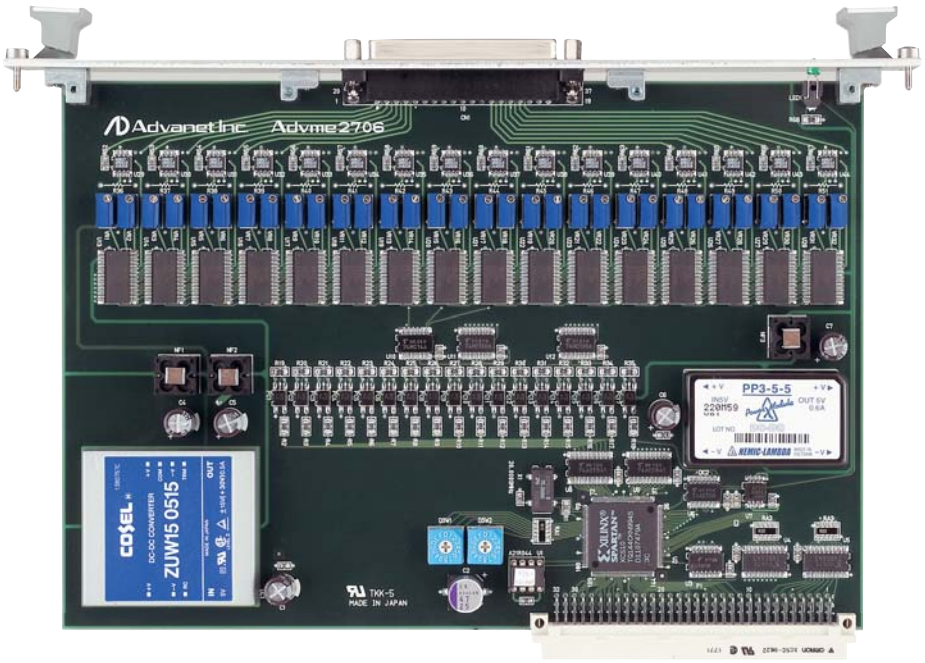
# Advme2706

## 16-ch 16-bit D/A Board




## Features

16-bit resolution, VME bus compliant board with a 16-channel D/A converter
±10V output range that can be expanded to ±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 : ±10V (can be expanded to ±12V by installing a resistor)
- Output current : Up to ±5mA
- Output impedance : Typ. 0.35Ω
- Output short-circuit protection : Continuous
- Output current : Up to ±5mA

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

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

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