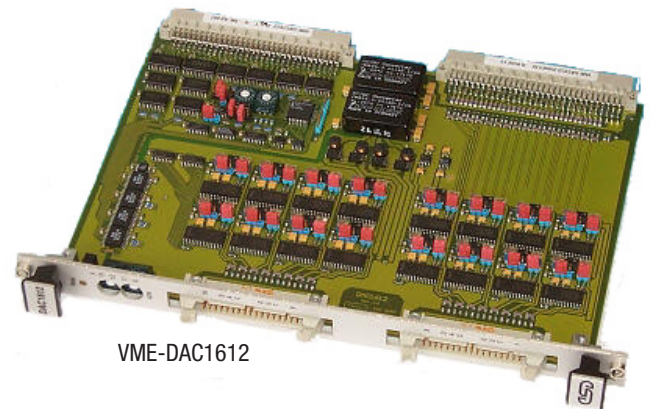




VME-DAC1612

16 Analog Outputs

- Up To 16 D/A Converters
General purpose analog output board
12 bits resolution, 5 μ s settling time
Multiple output voltage ranges possible, optionally current outputs for 8 channels
Buffered outputs, short-circuit-proof
- Industrial Standard
Safety of operation by electrical isolation between VMEbus and process environment
Proper wiring of analog outputs and analog parts power supply to the backplane via P2 and at the front panel



VME-DAC1612

Output Circuit

The VME-DAC1612 is an interface board designed for the generation of up to 16 analog signals for process control purposes. Select output voltages 0...+5 V, 0...+10 V, \pm 5 V or \pm 10 V.

Set the corresponding jumper on the board to make your selection. Use the potentiometers to adjust gain and offset. The VME-DAC1612 includes adjustments for bipolar voltages.

Adapter Board

Conversion of the output voltage (0...+10 V) into an output current (0...20 mA or 4...20 mA) is possible with option VME-DAC812-20mA for 4 or 8 channels.

Electrical Isolation

Fast magnetic coupling barriers IL715 and DC/DC-converters perform the electrical isolation between VMEbus and analog process section.

Wiring

The P2 connector links both the external power supply inputs of the analog section and the process signals to the system. esd

For further information please visit
<http://www.esd-electronics-usa.com/VME.html>

electronics, Inc. recommends the option DAC1612-ADAPT1 or DAC1612-ADAPT2 for connecting the signals from P2 with ribbon cable to an industrial mounted module (according to DIN EN 50022) with terminal blocks. Two 34-pin post connectors on the front panel allow easy accessibility to the analog outputs.

Software Support

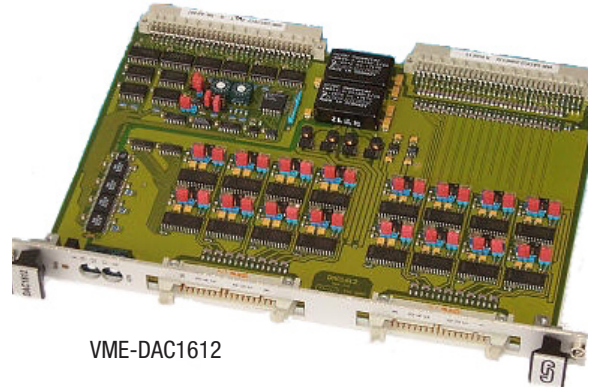
Simple commands control the VME-DAC1612 via VMEbus so that no driver is necessary. However, drivers for all popular operating systems are available.

growing with the
challenge

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VME-DAC1612

Technical Specifications:

Process section:

Outputs:	unipolar: 0...+5 V or 0...+10 V bipolar: -5...+5 V or -10...+10 V output current: 0...20 mA or 4...20 mA (with option DAC812-20mA, 8 channels)
Number of channels:	4, 8 or 16 channels
Resolution:	12 bits
Settling time:	5 μ s (VME data in to output, typ. 20 $^{\circ}$ C)
LED array:	BUSY (board select)
Electrical isolation:	By digital isolators IL715 and DC/DCconverters

VMEbus section:

Base address:	Selectable by jumpers over the whole address range of 16 Mbyte. The board covers 256 bytes.
Address modifier	Full AM decoding additionally with don't care (AM): mode for 'supervisory'/'non-privileged' mode
VMEbus revision compatibility:	IEEE 1014 rev. C.1
Data transfer options:	SAD024, SD16

General:

Ambient temperature:	0...70 $^{\circ}$ C
Humidity:	Max. 90%, non-condensing
Connector types:	P1, P2: DIN 41612-C96 P800, P801: 34-pin post connector
Board size:	160 mm x 233 mm
VME dimensions:	6U height, 1 slot width
Weight:	400 g
Power consumption:	Typ. 1.6 A at 5 VDC

Order Information:

Designation		Order no.
VME-DAC1612-x	x channels unipolar/bipolar 0...+10 V, -10...+10 V (x = 04, 08, 16)	V.1706.x
VME-DAC1612-ADAPT1	Adapter module with screw terminal blocks, connection to P2	V.1706.09
VME-DAC1612-ADAPT2	Adapter module with clamp terminal blocks, connection to P2	V.1706.10
VME-DAC812-20mA-x	Adapter for conversion to 0(4)...20 mA (x = 4, 8)	V.1706.2x
VME-DAC1612-OS	C driver for OS-9 as source code	P.1706.50
VME-DAC1612-VxW	C driver for VxWorks as source code	P.1706.56

For further information please visit
<http://www.esd-electronics-usa.com/VME.html>



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