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Find the *Acromag AVME9210* at our website: *Click HERE*

AVME921x 12-bit D/A Analog Output

- **Model AVME9210:** Voltage Output
- **Model AVME9215:** Current Output

These boards provide digital to analog conversion under control of the VMEbus for eight analog voltage or current outputs.

Both models have eight output channels, each channel equipped with its own 12-bit D/A converter. This assures the user of independent and sustained output signals free of drift or any need for continuous host attention. Individual D/A converters assure maximum signal accuracy and minimize output transients.

Features

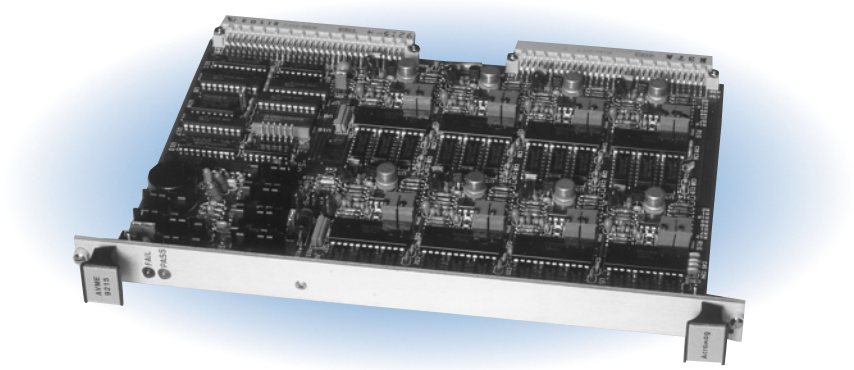
Model AVME9210:

- Eight output channels
- 12-bit output resolution
- Individual D/A converters per channel
- 6µS settling time
- Five jumper-programmable output ranges: ±10, ±5, ±2.5, 0 to 5, and 0 to 10 volts
- Individual channel voltage ranges
- Output withstands continuous short circuit
- Resets to lowest value of range selected or 0V
- Jumper-selectable data format

Model AVME9215:

Same as above, except:

- 4 to 20mA output range
- 25µS settling time
- Configurable for an external power supply to drive large resistive loads
- Resets to 4mA output
- Internal power supply drives up to 500 ohms



The AVME9210 and AVME9215 are equipped with individual D/A converters on each channel for better performance.

Specifications

Analog Output

Number of output channels: 8.

Number of D/A converters: 8.

Channel resolution: 12 bits.

Monotonicity over temperature: 12 bits.

Non-linearity: 0.013% of span, maximum.

AVME9210 only:

Output ranges:
±10V, ±5V, ±2.5V, 0 to 5V, and 0 to 10V.

Accuracy:
For ±10V range: 0.025% of span.
For other ranges: 0.45% of span, adjustable to 0.025% of span.

Output Noise: 3mV peak-to-peak maximum.

Channel to channel rejection: 93dB.

Settling time to 1/2 LSB for 20V step: 6.0µS.

Gain temperature coefficient: 30ppm/°C maximum.

Offset temperature coefficient: 10ppm/°C maximum.

Default on reset: 0V for unipolar, negative full scale for bipolar.

AVME9215 only:

Output range: 4 to 20mA.

Accuracy: 0.025% of span.

Output noise: 4µA peak-to-peak maximum.

Channel to channel rejection: 81dB (500 ohm load).

Settling time to 1/2 LSB for full scale step and 250 ohm load: 25µS.

Gain temperature coefficient : 35ppm/°C maximum.

Offset temperature coefficient: 18ppm/°C maximum.

Default on reset: 4mA.

VME Compliance

Meets VME Specifications per revision C.1 dated October 1985 and IEC 821-1987.

Data transfer bus: A16: D16/D08 (EO) DTB slave.

Address modifier code: 29(HEX) and 2D(HEX).

Memory map: short I/O space, occupying 1K.

Digital output coding: Straight Binary or Bipolar Two's Complement.

Environmental

Operating temperature: 0 to 70°C (32 to 158°F).

Relative humidity: 5 to 95%, non-condensing.

Isolation: Non-isolated.

RFI/EMI: <0.25% of full scale range at 10V/m field intensity at 27, 151, and 467MHz.

Power
AVME9210:
+5V @ 3.3A maximum.
+12V @ 0.6mA maximum.
-12V @ No load.
AVME9215:
+5V @ 4A maximum.
+12V @ 0.6mA maximum.
-12V @ No load.

Connectors
P1: IEC type 603-2-C096MX-xxx (96 pin DIN).
P2: IEC type 603-2-C064MX-xxx.

Ordering Information

AVME9210
Voltage outputs

AVME9215
Current outputs

For software, see Page 58. For wiring hardware, see Pages 60-65. For signal conditioning, see Page 66.

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