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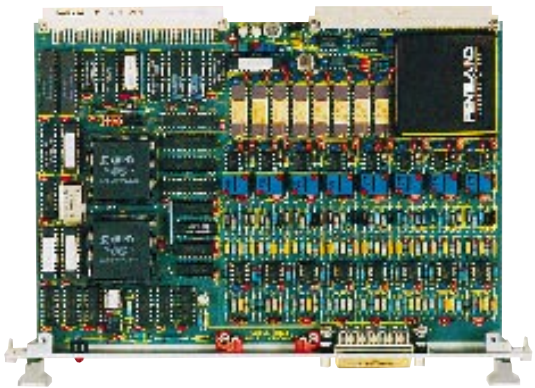
MPV955 High Speed, 8 Channels, 16 bit, Analog Output

Features

- Output short circuit protection
- Outputs set to 0V on power-up and after watchdog timer timeout
- Enable/disable outputs via control register

Overview

Eight individual digital-to-analog converters are controlled by an on-board rate generator capable of speeds up to 660kHz. Output data is stored in 16k words of resident RAM, eliminating the need to continually write to the board and reducing VMEbus bandwidth. The memory can be allocated to different channels or can be organised in a swinging buffer arrangement allowing operation in a continuous output mode. All outputs power up to zero volts and a watchdog timer is provided with time intervals selectable between 1 second and 5 minutes. With the watchdog enabled, the outputs are set to zero volts, if the outputs are not updated within the set time. Jumper selectable output reconstruction filters smooth the effects of quantisation. The MPV955 may be used as a waveform generator, storing up to eight digitized waveforms in on-board RAM. These waveforms can be continually output without CPU intervention until halted.



Output

- Channels = 8 (DAC per Channel)
- Resolution = 16 bits
- Accuracy = [FSR = Full Scale Range]
 - 0-5V range $\pm 0.021\%$ FSR (Filtered)
 - 0-5V range $\pm 0.015\%$ FSR (Unfiltered)
 - $\pm 5V$ range $\pm 0.008\%$ FSR (Filtered)
 - $\pm 5V$ range $\pm 0.006\%$ FSR (Unfiltered)
 - 0-10V range $\pm 0.025\%$ FSR (Filtered)
 - 0-10V range $\pm 0.013\%$ FSR (Unfiltered)
 - $\pm 10V$ range $\pm 0.006\%$ FSR (Filtered)
 - $\pm 10V$ range $\pm 0.003\%$ FSR (Unfiltered)
- Output Ranges (Jumper Selectable)
 - Unipolar: 0 to +5V, 0 to +10V
 - Bipolar: $\pm 5V$, $\pm 10V$
- Output Rate = 660KSPS aggregate
- Settling Time = 1.0 μs (to 0.1%, 20V step)
- Output Protection: Short Circuit - Indefinite

System

- VMEbus = A16/A24:D16/D08(E0) DTB Slave
- On-Board Data Memory = 16K Words.
- Bus Interrupter = IRQ 1 - 7
- Mechanical Format = 6U; Single Width
- Operating Temperature = 0°C to 60°C
- Power Requirements = +5V $\pm 5\%$ at 3.5A max.(VME)

Ordering Information

MPV955: 8 Channel High-Speed/High Resolution Analog Output Board.

MPV954 High Speed 8 Channels, 12bit, Analog Output

Overview

The MPV954 and the MPV955 share a common design and PCB. The products only differ in the configuration of the analog output stages. The MPV954 embodies a 16 bit performance conversion stage. All other attributes are the same as the MPV955 detailed above.

All Specifications as for the MPV955 above with the following differences.

Output

- Resolution = 12 bits
- Accuracy: $\pm 0.05\%$

Ordering Information

MPV954: 8 Channel High-Speed Analog Output Board.

MPV914 32 Channels, 12 bit, Analog Output

Overview

The MPV914 occupies 32 memory locations allowing the base address to be set on 40(Hex) boundaries. The thirty-two outputs may be independently jumper configured for 0-5V, 0-10V, $\pm 5V$ and $\pm 10V$ ranges. Each pair of channels can also be jumper configured to accept either straight binary or two's complement input codes. All outputs can also be configured to power on to zero volts. Each DAC channel may be independently updated by writing to the least significant 12 bits of the corresponding memory location.

Output

- Channels = 32 (DAC per Channel)
- Resolution = 12 bits
- Accuracy = $\pm 0.025\%$ Full Scale Range
- Output Ranges: (Jumper Selectable)
 - Unipolar: +5V, +10V;
 - Bipolar: $\pm 5V$, $\pm 10V$
- Output Drive = 5mA per Channel
- Settling Time = 2.5ms (to 0.01% 20V step)
- Power up Condition = 0V

System

- VMEbus = A16:D16 DTB Slave
- Mechanical Format = 6U; Single Width
- Power Requirements = +5V $\pm 5\%$ @ 1.5A max. (VME)
- Operating Temperature = 0°C to 60°C

Ordering Information

MPV914: 32 Channel Analog Output Board



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