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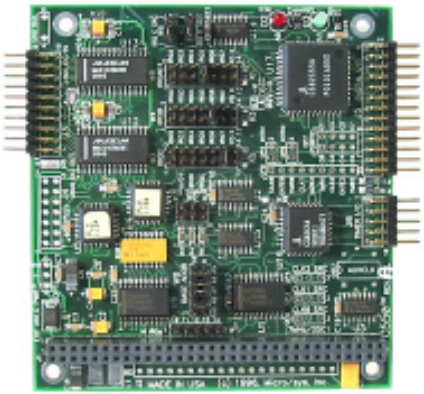
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Find the *MicroSys MPC550* at our website: ***Click HERE***

Analog, Digital, and Timer I/O for PC/104
MPC550



Features

- ✓ Sixteen 12-bit channels of analog input
- ✓ 100KHz A/D sampling rate
- ✓ Software selectable A/D input ranges
- ✓ 24 digital I/O lines
- ✓ Three 16-bit counter/timers
- ✓ Optional 12-bit DACs, 4 or 8 channels
- ✓ 5V only operation
- ✓ PC/104 form factor

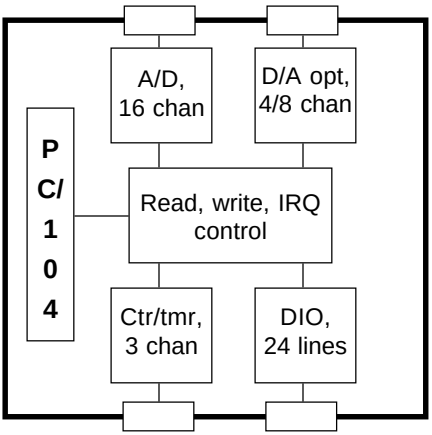
The MPC550 Analog and Digital I/O module provides 16 channels of analog input to PC/104 systems. The module also includes 24 bits of digital I/O and three general purpose counter/times. Additionally, up to 8 channels of analog output are available.

The analog input section implements a complete data acquisition system with programmable input ranges. The input ranges supported can be either unipolar or bipolar. Ranges available are +5V, +10V, ±5V, and ±10V.

The three 16-bit counter/timer channels can be used to count digital input events, measure time between events, and to generate system timing interrupts. The counter/timers normally clocked by the PC/104 system clock, with options for a user-supplied oscillator if a particular frequency is needed.

Software Support	Compatible Hardware	Mounting/Packaging
Drivers provided	*Custom interfacing*	*PC/104 standard*

Micro/sys 3730 Park Place, Montrose, CA 91020 (818)244-4600 Fax (818)244-4246
email: info@embeddedsys.com
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Specifications:

Mechanical:
- ❑ PC/104 standard
- ❑ 3.55" (plus I/O region) x 3.775" x .6"

Power Requirements:
- ❑ +5V ± 5% at 250 mA max, no DAC option
- ❑ DAC option requires additional +5V ± 5%:
  4 channel option - 60 mA max
  8 channel option - 120 mA max

Environmental:
- ❑ 0° - +70°C operating
- ❑ -25° - +85°C storage
- ❑ 5%-95% relative humidity, non-condensing

PC/104 Interface:
- ❑ 8-bit PC/104 module
- ❑ IRQ2-7 supported
- ❑ IRQ10, 11, 12, 14, 15 supported if optional 16-bit PC/104 connector installed
- ❑ PC/104 interrupt sharing supported

Digital I/O:
- ❑ 24 TTL-level I/O lines from 82C55 device
- ❑ In output mode, 2.4 mA source/sink

Analog Inputs:
- ❑ Sixteen 12-bit channels
- ❑ ±.5 LSB linearity
- ❑ 6usec conversion, 100KHz sampling rate
- ❑ Software selectable input ranges, +5V, +10V, ±5V, ±10V

Counter/Timers:
- ❑ Three 16-bit channels from 82C54 device
- ❑ 8MHz maximum input count rate
- ❑ Cascadeable for larger counts

Analog Output Option:
- ❑ Four or eight 12-bit DAC channels
- ❑ 10V full scale output, all channels
- ❑ ±.5 LSB linearity
- ❑ 6usec DAC update settling time

External Connections:
- ❑ 20-pin header for analog input
- ❑ 26-pin header for digital I/O
- ❑ 10-pin header for counter/timer I/O
- ❑ 14-pin header for analog output option

Ordering Information:

MPC550	Analog, Digital, Timer I/O
550OPT1-4	Analog output option, 4 chan
550OPT1-8	Analog output option, 8 chan

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