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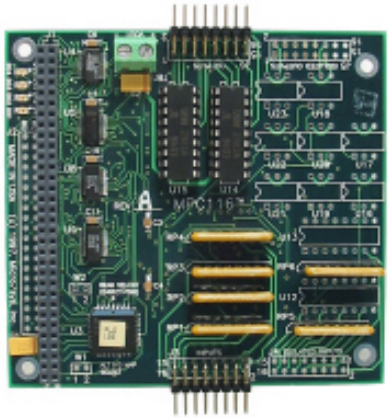
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Find the *MicroSys MPC116* at our website: ***Click HERE***

High Voltage, High Current, Opto Isolated I/O for PC/104
MPC116



Features

- ✓ 32 Lines of industrial I/O
- ✓ Open emitter outputs source up to 350mA, 60VDC max
- ✓ Inputs sink current from 24V (nominal) inputs
- ✓ Series resistors on inputs allow other voltages
- ✓ Eight outputs optionally opto isolated
- ✓ Eight inputs optionally opto isolated
- ✓ PC/104 format

The MPC116 provides 32 lines of digital I/O for use in PC/104 applications. It implements 16 digital inputs and 16 digital outputs that can be connected to non-TTL devices such as lamps and relays. Output transistors, rated at 60V max, source current from a user-supplied voltage. Inputs are turned on by sourcing current into them from an external source from 12VDC to 60VDC, set by user-changable series resistors.

Two optical isolation options are available. Eight of the MPC116 output lines can be optically isolated with on-board solid state-relays, and eight of the inputs can be optically isolated on -board.

Software Support

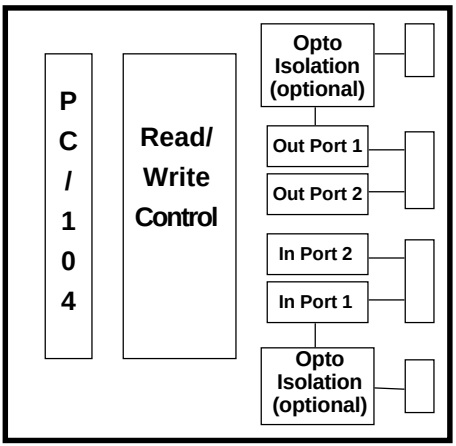
Compatible Hardware

Any Micro/sys CPU with PC/104 expansion connector
[See Section 1]
Digital racks, PB8H, PB16H, PB24
Terminal Boards, TB5001, TB5002
[Items above in section 4]
Custom interfacing

Mounting/Packaging

PC/104 standard

Micro/sys 3730 Park Place, Montrose, CA 91020 (818)244-4600 Fax (818)244-4246
email: info@embeddedsys.com
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



Specifications:

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

Power Requirements:
- ❑ +5V ± 5% at TBD max
- ❑ User-supplied output voltage source, 6V to 50VDC

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

PC/104 Interface:
- ❑ 8-bit PC/104 module
- ❑ 4 sequential I/O ports, jumper settable

Digital Output Lines:
- ❑ Two ports, 8-bits each
- ❑ Read back capability
- ❑ 4 LEDS display status of 4 output lines
- ❑ "On" output sources current to connector pin from user-supplied voltage
- ❑ Diode clamps to ground and to user-supplied voltage for inductive loads
- ❑ 350mA output current, max.
- ❑ Must derate to 50mA per output if all 8 outputs in same port are"on" simultaneously
- ❑ Vce saturation 1.8V at 350mA

Digital Input Lines:
- ❑ Two ports, 8-bits each
- ❑ Series resistor on each input pin, 15K, user-changeable
- ❑ Clamping diodes to protect logic
- ❑ External voltage source must supply current into input pin to turn "on"

Isolated Output option:
- ❑ Opto isolates 8 outputs
- ❑ Power FET outputs from solid state relay
- ❑ 400VDC max load voltage
- ❑ 300mA max load current, source or sink
- ❑ On resistance, 3.8 ohms, max
- ❑ Max relay power dissipation per output 750mW

Isolated Input option:
- ❑ Opto isolates 8 inputs
- ❑ Two isolated pins per input line
- ❑ Series resistor in each input line, 2.2K, user-changeable
- ❑ Turn-on current 5mA min, 80mA max

External Connections:
- ❑ 16-pin header with 16 non-isolated input lines
- ❑ 16-pin header with 16 non-isolated output lines
- ❑ 16-pin header with optional 8 opto isolated input lines
- ❑ 16-pin header with optional 8 opto isolated output lines

Ordering Information:

MPC116	32-line industrial I/O card
116OPT1	8 channel isolated input
116OPT2	8 channel isolated output

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