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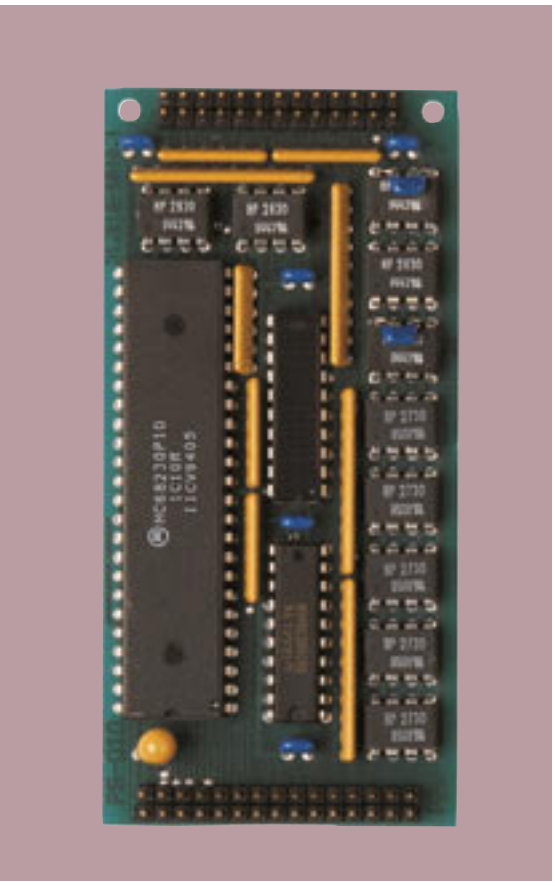
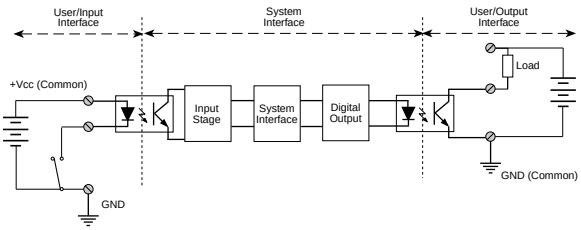
PB-DIO2/3

20 Channel Optoisolated Digital Input/Output MODPACKs



Input/OutputChannel Schematic



A 20 channel, optoisolated 24V DC range of digital input/output industrial piggybacks based on the MC68230 PIT from Motorola for the PEP VMOD-2 and CXM-IMOD carrier boards.

The 8 filtered inputs connected to port B together with the 2 controller inputs H1 and H3, which may be used to generate an IRQ on change-of-state, are supplied by a common Vcc (or common GND). The 8 outputs connected to port A are grouped together via a common GND (or common Vcc) and 2 additional outputs H2 and H4 from the controller form the 68230 handshake lines. The 24-bit timer may be used internally for IRQ generation but no signals are available on the process side of the PB-DIO2. The TIN input of the PB-DIO3 can be accessed externally.

Specifications

Input /Output	: 20 optoisolated 24V DC digital input and output channels with 8 outputs appearing on port A, 8 inputs on port B, 2 inputs for change-of-state IRQ generation on H1 and H3 and 2 handshake outputs on H2 and H4
Controller	: Motorola or SGS Thomson 68230 @ 8 MHz
Timer/Counter	: 24-bit @ 8 MHz; TIN can be configured as an input on the PB-DIO3
Input Voltage	: 24V DC (typ.)
Input Current	: 5mA (typ.)
Input Switching Level	: < 5V = low, > 7.5 V = high
Output Voltage	: 24V DC (typ.)
Output Current	: 100mA (max.)
Input/Output Types	: Common Vcc or common GND
Isolation	: 2500V DC between input/output and system, 100V DC between inputs/outputs on PB-DIO3
Power Requirements	: +5V DC (+/- 5%), 500mA typ.
Operating Temperature	: 0ºC to +70ºC
Extended Temperature	: -40ºC to + 85ºC (Optional)
Storage Temperature	: -55ºC to +85ºC
Operating Humidity	: 0% to 95% (non-condensing)

Product	Description	Order No.
PB-DIO2	A 20 channel optoisolated 24V DC I/O piggyback with com. Vcc inputs and com. GND outputs	2954
PB-DIO2	As version 2954 but with common Vcc outputs	2955
PB-DIO3	As version 2954 but with common GND inputs and common GND outputs	2994
PB-DIO3	As version 2994 but with common Vcc outputs	2995

CERTIFIED DIN ISO 9001 QUALITY SYSTEM
Reg. No. 0548 - 01

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