Features

- Standard single-width 32-bit PMC conforming to IEEE P1386.1
- PCI 2.1 compliant interface
- Card size: 149mm x 74mm
- 16 interrupt generating digital inputs
- 24 V signal voltage for inputs
- Optocoupler for galvanic isolation
- All inputs isolated to each other in groups of four inputs
- Programmable electronic debounce circuit (7µs to 440ms in steps of 7µs),
- 16 digital outputs, high side switches
- 24 V signal voltage, current per output 0.5A
- Optocoupler for galvanic isolation
- Outputs are short-circuit protected
- Outputs are isolated to each other in groups of four outputs
- Outputs protected against thermal overload
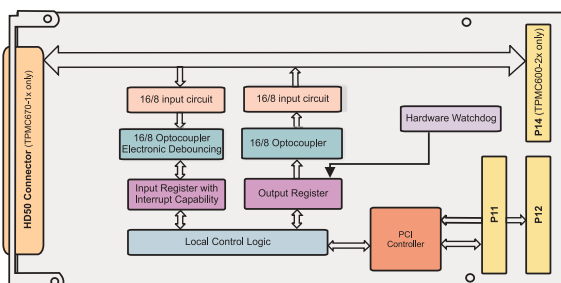- Watchdog timer resets all channels in case of trigger failure

PMC-DIO-ETF

The PMC-DIO is a standard single-width 32-bit PCI Mezzanine Card (PMC) with sixteen 24V digital inputs galvanically isolated from the computer system by optocoupler. The inputs are also potential free to each other in groups of four inputs. A high performance input circuit ensures a defined switching point and polarization protection against confusing the pole. All inputs have a common electronic debounce circuit with a freely programmable debounce time. All inputs can generate an interrupt. The signal edge handling is programmable to interrupt on rising, falling or both edges of the input signal.

The PMC-DIO has 16 digital high side switches with galvanic isolation from the computer system by optocoupler. The outputs are also isolated against each other in groups of four outputs. All outputs are protected against short-circuit and thermal overload. The output drivers are capable of driving 0.5A continuous per channel. A hardware watchdog clears all outputs in case of trigger fail.

Two versions of the PMC are available: the PMC-DIO-EFT has front panel I/O; the PMC-DIO-ETB has I/O via P14.

Specifications

Form Factor   Single size PCI Mezzanine Card

Environmental   Operating temperature: -25°C to +85°C
                               Humidity: 5% to 95% non-condensing

                               Storage: -55°C to +125°C

Ordering Information

PMC-DIO-ETF   PMC with 16 digital inputs, 16 digital outputs and front panel I/O

PMC-DIO-ETB   PMC with 16 digital inputs, 16 digital outputs and I/O via P14

TCD842670   Support Software for VxWorks operating system

TCD862670   Support Software for Windows NT 4.0 operating system

TCD865670   Support Software for Windows XP/ME/2000 operating system

TCD872670   Support Software for LynxOS operating system

TCD882670   Support Software for Linux operating system

TCD892670   Support Software for QNX 4.0 operating system

TCD895670   Support Software for Neutrino QNX6 operating system

For additional contact information, please visit our web site at *www.sbs.com*

SBS
Technologies