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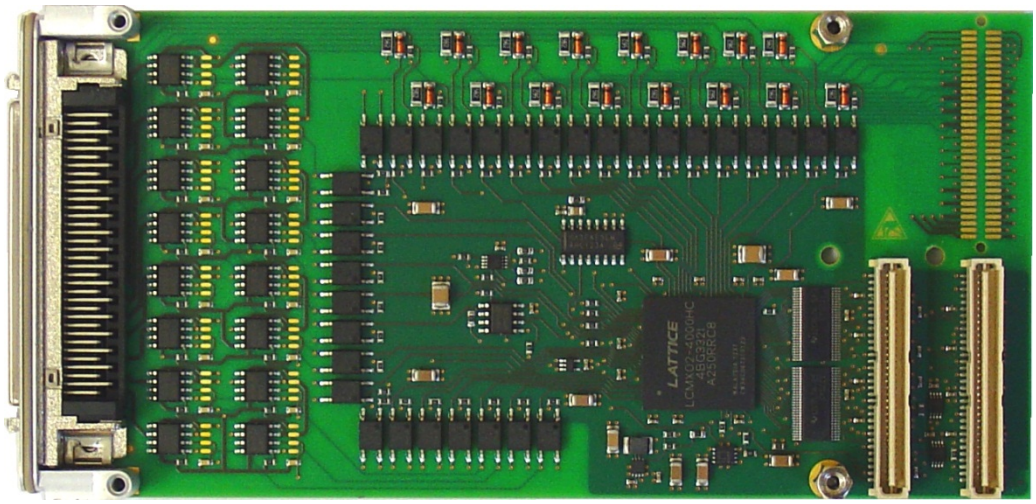
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Find the *Tews Technologies TPMC671-20R-C3* at our website: ***Click HERE***

TPMC671 16 Digital Inputs (24V) 16 Digital Outputs (24V, 0.5A)



Application Information

The TPMC671 is a standard single-width 32 bit PMC with 16 24V digital inputs galvanically isolated from the computer system by optocoupler. The inputs are also potential free to each other. 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 TPMC671 has 16 digital high side or low side switches (build option) 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. The TPMC671-1xR provides front panel I/O, the TPMC671-2xR provides P14 I/O.

Software Support (TDRV003-SW-xx) for different operating systems is available.

Technical Information

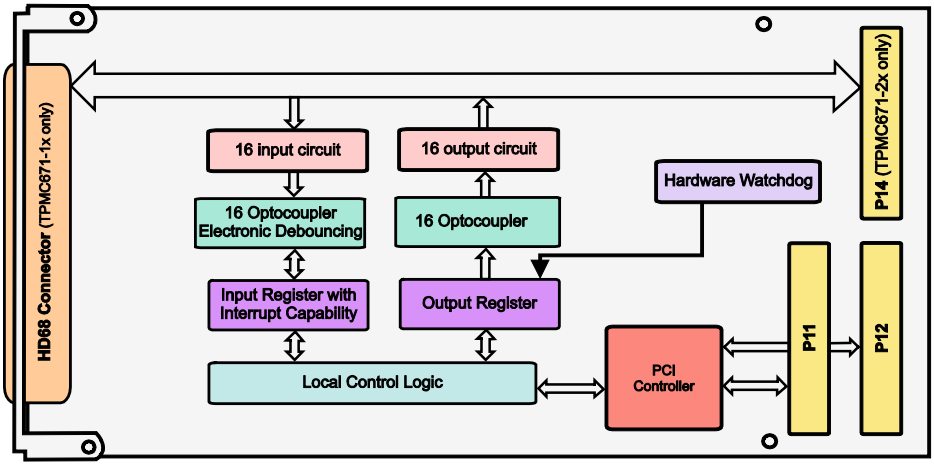
- Standard single-width 32 bit PMC module conforming to IEEE P1386.1
- PCI 3.0 compliant interface
- 3.3V and 5V PCI Signaling Voltage
- Board size: 149 mm x 74 mm
- 16 interrupt generating digital inputs
  - 24 V signal voltage for inputs
  - Optocoupler for galvanic isolation
  - All inputs isolated to each other
  - Programmable electronic debounce circuit (7µs to 440ms in steps of 7µs),
- 16 digital outputs, high side or low side switches (build option)
  - 24V 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 are protected against thermal overload
  - Watchdog timer resets all channels in case of trigger failure
- Operating temperature -25°C to +85°C
- MTBF (MIL-HDBK217F/FN2 GB 20°C) TPMC671: 860.000 h

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Order Information

RoHS Compliant

TPMC671-10R	16 Dig. In (24V, isolated, pgm. interrupts, pgm. Debounce), 16 Dig. Out (High Side 24V 0.5A), HD68
TPMC671-11R	16 Dig. In (24V, isolated, pgm. interrupts, pgm. Debounce), 16 Dig. Out (Low Side 24V 0.5A), HD68
TPMC671-20R	16 Dig. In (24V, isolated, pgm. interrupts, pgm. Debounce), 16 Dig. Out (High Side 24V 0.5A), P14 I/O
TPMC671-21R	16 Dig. In (24V, isolated, pgm. interrupts, pgm. Debounce), 16 Dig. Out (Low Side 24V 0.5A), P14 I/O

For the availability of non-RoHS compliant (leaded solder) products please contact TEWS.

Documentation

TPMC671-DOC	User Manual

Software

TDRV003-SW-25	Integrity Software Support
TDRV003-SW-42	VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
TDRV003-SW-65	Windows Software Support
TDRV003-SW-82	Linux Software Support
TDRV003-SW-95	QNX Software Support

For other operating systems please contact TEWS.

Related Products

TA304	Cable Kit for Modules with HD68 Connector
TPIM002	PIM I/O Module, HD68 connector

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