

TPMC680 8 x 8 Bit Digital Inputs/Outputs (5V TTL)



Application Information

The TPMC680 is a standard single-width 32 bit PMC module offering 64 bit of TTL I/O arranged in 8 x 8 bit ports. Direction of the I/O lines is software programmable for each of the 8 bit ports. Each 8 bit port is built up using a TTL bus transceiver. Each line is protected against ESD and overvoltage.

Each input can generate an interrupt. Signal edge handling is programmable to interrupt on rising and/or falling edge of the input signal. Interrupts can be enabled and disabled for each bit. For interrupt source detection the status of each bit can be read from the interrupt status register.

The TPMC680 supports three basic modes of operation: standard byte I/O with interrupts, 2 x 16 bit port with handshake and 1 x 32 bit port with handshake. The two handshake modes offer double buffered inputs or outputs and interlocked or pulsed handshake output protocol.

In byte I/O mode it is possible to read or write synchronously all 64 lines.

The TPMC680 provides front panel I/O via a HD68 SCSI-3 type connector and rear panel I/O via P14.

Software Support (TPMC680-SW-xx) different operating systems is available.

Technical Information

- Standard single-width 32 bit PMC module conforming to IEEE P1386.1
- PCI 2.1 compliant interface
- 3.3V and 5V PCI Signaling Voltage
- O Board size: 149 mm x 74 mm
- Interrupt generating digital I/O lines
 - TTL I/O's arranged in 8 x 8 bit ports \mathbf{O}
 - Direction programmable per 8 bit port
 - TTL signaling voltage (maximum current: ±16mA)
- O ESD and overvoltage protection for each I/O line

- O I/O access:
 - 64 I/O lines on HD68 front connector, parallel to
 - 56 I/O lines [55:0] and system ground on rear connector P14; changeable to up to 64 I/O lines without ground
- Basic operating modes: Byte I/O and two handshake
- Temperature range: -40°C to +85°C



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Ehlbeek 15a 30938 Burgwedel fon 05139-9980-0 fax 05139-9980-49

www.powerbridge.de info@powerbridge.de

TEWS TECHNOLOGIES GmbH

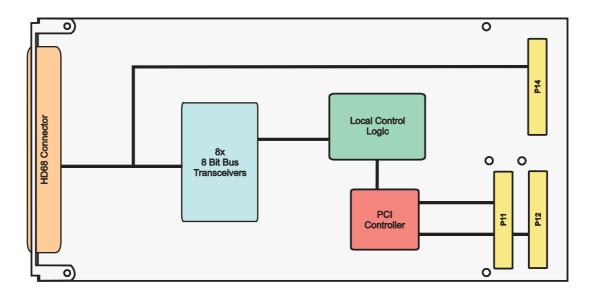
Am Bahnhof 7 25469 Halstenbek, Germany) 4101 4058 0 Fax: +49 (0) 4101 4058 19

e-mail: info@tews.com www.tews.com

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The Embedded I/O Company



Order Information

RoHS Compliant

TPMC680-10R 64-bit TTL I/O, 8 x 8-bit Port, interrupts, handshake modes, HD68, 7 ports available at P14 I/O

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

Documentation

TPMC680-DOC User Manual

Software

TPMC680-SW-25 Integrity Software Support

TPMC680-SW-42 VxWorks Software Support (Legacy and VxBus-Enabled Software Support)

TPMC680-SW-65 Windows Software Support
TPMC680-SW-95 Unioux Software Support
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For other operating systems please contact TEWS.

Related Products

TA304 Cable Kit for Modules with HD68 Connector

TPIM002 PIM I/O Module, HD68 connector