

TPMC680 64 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 high current TTL bus transceiver.

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 protocol.

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

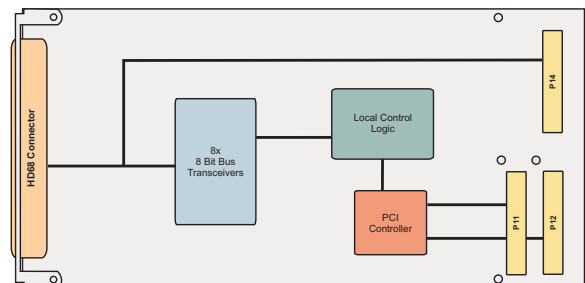
The TPMC680 provides front panel I/O via a HD68 SCSI-type connector and rear panel I/O via P14.

For First Time Users the engineering documentation TPMC680-ED is recommended. The engineering documentation includes TPMC680-DOC, schematics and data sheets.

Driver support (TPMC680-SW-xx) for different operating systems is available.

Technical Information

- Standard single-width 32 bit PMC module conforming to IEEE P1386.1
- PCI 2.2 compliant interface
- Board size: 149mm x 74mm
- 64 interrupt generating digital I/O lines
 - 64 bit TTL I/O's arranged in 8 x 8 bit ports
 - Direction programmable per 8 bit port
 - TTL signaling voltage (maximum current: 64mA)
- 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
- Basic operating modes: Byte I/O and two handshake modes
- Temperature range: -40°C to +85°C



Order Information

TPMC680-10	64 Digital Inputs/Outputs
TPMC680-DOC	User Documentation
TPMC680-ED	Engineering Documentation, includes TPMC680-DOC
TA304-10	Cable Kit for modules with HD68 connector
TPMC680-SW-12	OS-9 Software Support
TPMC680-SW-32	pSOS Software Support
TPMC680-SW-42	VxWorks Software Support
TPMC680-SW-62	Windows NT 4.0 Software Support
TPMC680-SW-65	Windows XP/2000/98 SE/ME Software Support
TPMC680-SW-72	LynxOS Software Support
TPMC680-SW-82	LiNux Software Support
TPMC680-SW-92	QNX 4 Software Support
TPMC680-SW-95	QNX 6 Software Support