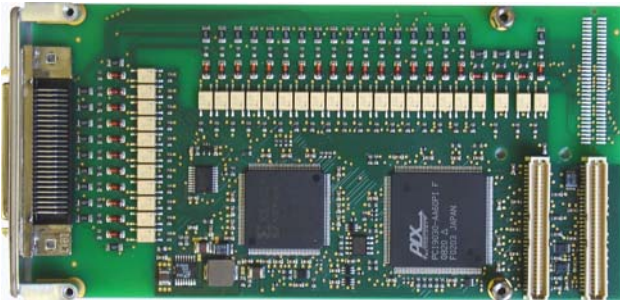# TPMC600   32 / 16 Interrupt Generating Digital Inputs (24V)

Application Information

The TPMC600 is a PMC compatible module and has 32 digital inputs galvanically isolated by optocouplers. The individual inputs are separated in groups of 4 sharing a common ground input. These groups are 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 an electronic debounce circuit with a programmable debounce time.

A version with 16 inputs is also available where modules with front respectively back panel I/O are available. All inputs can generate an interrupt. The signal edge handling is programmable.
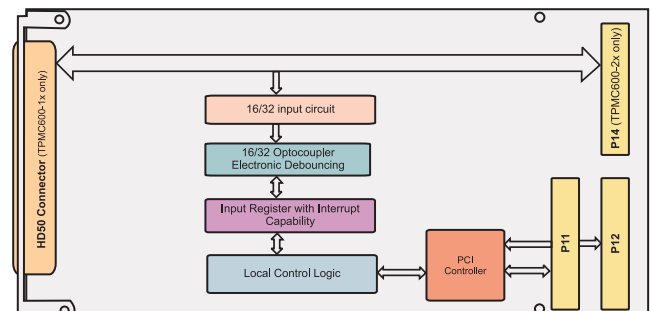
For First Time Users the Engineering Documentation TPMC600-ED is recommended. The Engineering Documentation includes TPMC600-DOC, schematics and data sheets.

Software Support (TPMC600-SW-xx) for different operating systems is available.

Technical Information

- Form Factor: Standard single-width 32 bit PMC module conforming to IEEE P1386.1
  - Board size: 149 mm x 74 mm
- PCI r2.2 compliant interface, 32 bit, 33 MHz
- 3.3V and 5V PCI Signaling Voltage
- 32 / 16 interrupt generating digital inputs
- 24 V signal voltage for inputs, other voltages on request
- Optocoupler for galvanic isolation of inputs to computer
- All inputs isolated to each other in groups of four inputs
- Protection against confusing the pole
- Programmable electronic debounce circuit (7µs to 440 ms in steps of 7µs)
- Operating temperature -40°C to +85°C
- MTBF (MIL-HDBK217F/FN2 G_B 20°C)
  TPMC600-10x/-20x: 497226 h
  TPMC600-11x/-21x: 546572 h

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The Embedded I/O Company

Order Information

RoHS Compliant

TPMC600-10R 32 Interrupt Generating Digital Inputs, Front panel I/O
TPMC600-11R 16 Interrupt Generating Digital Inputs, Front panel I/O
TPMC600-20R 32 Interrupt Generating Digital Inputs, P14 I/O
TPMC600-21R 16 Interrupt Generating Digital Inputs, P14 I/O

None RoHS Compliant

TPMC600-10 None RoHS compliant version of TPMC600-10R
TPMC600-11 None RoHS compliant version of TPMC600-11R
TPMC600-20 None RoHS compliant version of TPMC600-20R
TPMC600-21 None RoHS compliant version of TPMC600-21R

Documentation

TPMC600-DOC User Manual
TPMC600-ED Engineering Documentation, includes TPMC600-DOC

Software

TPMC600-SW-25 Integrity Software Support
TPMC600-SW-42 VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
TPMC600-SW-65 Windows XP/XPE/2000 Software Support
TPMC600-SW-72 LynxOS Software Support
TPMC600-SW-82 LiNUX Software Support
TPMC600-SW-95 QNX 6 Software Support

For other operating systems please contact TEWS.

Related Products

TA301 Cable Kit for modules with HD50 connector
TPIM001 PIM I/O Module with HD50 SCSI-2 type connector