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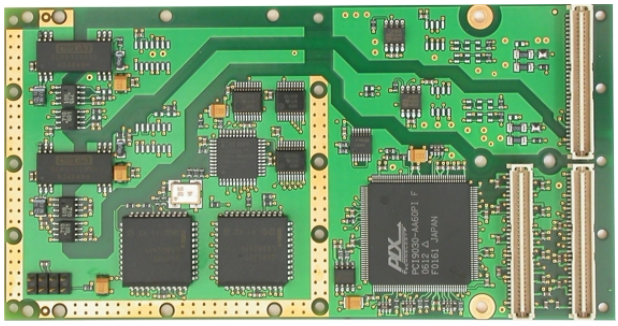
# TPMC316 Conduction Cooled PMC, Isolated 2 x CAN Bus

## Application Information

The TPMC316 is a conduction cooled single-width 32 bit PMC module and provides two complete CAN bus interfaces using two Intel 82527 CAN controllers. Both channels are completely independent and support CAN specification 2.0 part A and B (standard 11 bit identifier and extended 29 bit identifier).

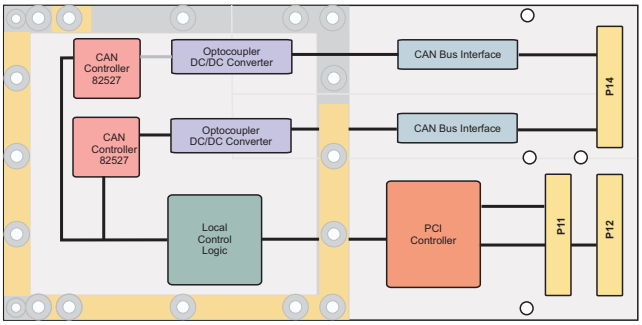
Each physical interface is optically isolated from the CAN controller and powered by an on board DC/DC converter and a voltage regulator. Two versions of physical interface are available: the TPMC316-10 supports CAN high speed for each of the two channels. The TPMC316-11 provides a modified RS485 interface for each of the two channels. The bus line termination can be enabled or disabled for each channel by solder pads (disabled per default).

The TPMC316 has no front panel. It uses P14 I/O connector with the same pin assignment as the TPMC816.



For First Time Users the Engineering Documentation TPMC316-ED is recommended. The Engineering Documentation includes TPMC316-DOC, schematics and data sheets.

Software Support (TDRV011-SW-xx) for different operating systems is available.




## Technical Information

- Conduction Cooled single-width 32 bit PMC module conforming to IEEE P1386.1, no front panel
- PCI 2.1 compliant interface
- 3.3V and 5V PCI Signaling Voltage
- Board size: 144 mm x 74 mm
- Two CAN bus interface based on Intel 82527 chip
- Support CAN specification 2.0 part A and B (standard and extended data frames)
- Programmable global mask
- 15 message objects of 8 byte data length
- Powerful error handling
- Programmable transfer rates
- Physical interface CAN High Speed (according to ISO 11 898) on TPMC316-10 or modified RS485 on TPMC316-11 per channel
- Physical interface optically isolated from CAN controller by on board DC/DC converter and optocoupler per channel
- Transfer rate 1 Mbit/s maximum (bus length up to 40 m)
- Operating temperature range –40°C to +85°C

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## Order Information

### RoHS Compliant

| | |
|---|---|
| **TPMC316-10R** | Conduction Cooled PMC, Isolated 2 x CAN Bus (CAN High Speed) |
| **TPMC316-11R** | Conduction Cooled, Isolated 2 x CAN Bus (modified RS485) |

### None RoHS Compliant

| | |
|---|---|
| TPMC316-10 | None RoHS compliant version of TPMC316-10R |
| TPMC316-11 | None RoHS compliant version of TPMC316-11R |

### Documentation

| | |
|---|---|
| **TPMC316-DOC** | User Manual |
| **TPMC316-ED** | Engineering Documentation, includes TPMC316-DOC |

### Software

| | |
|---|---|
| **TDRV011-SW-25** | Integrity Software Support |
| **TDRV011-SW-42** | VxWorks Software Support (Legacy and VxBus-Enabled Software Support) |
| **TDRV011-SW-65** | Windows XP/XPE/2000 Software Support |
| **TDRV011-SW-72** | LynxOS Software Support |
| **TDRV011-SW-82** | LiNUX Software Support |
| **TDRV011-SW-95** | QNX 6 Software Support |

For other operating systems please contact TEWS.

### Related Products

| | |
|---|---|
| **TPIM001** | PIM I/O Module with 50 pin SCSI-2 type connector |

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