The TPMC901 is a PCI Mezzanine Card (PMC) compatible module.
The TPMC901-10 provides six independent CAN bus interfaces using six Bosch CC770F CAN Controllers. The CC770 offers pin compatibility with Intel's 82527 CAN Controller and is a function replacement. Additionally to the standard data and remote frame, all channels support the extended data and remote frame according to the CAN specification 2.0 part A and B (standard 11 bit identifier and extended 29 bit identifier).
All channels have the capability to transmit, receive and perform message filtering on extended and standard messages.

Each channel supports CAN High Speed according to ISO11898 as the physical interface. The bus line termination is selectable by a jumper separate for each bus line pair. The data transfer rates of up to 1 Mbps are supported for a bus line length of 40 m.
The TPMC901-11 supports four CAN bus channels and the TPMC901-12 has two CAN bus channels.
For First-Time-Buyers the engineering documentation TPMC901-ED is recommended. The engineering documentation includes TPMC901-DOC, schematics and data sheets of TPMC901.
Software Support (TDRV011-SW-xx) for different operating systems is available.

Technical Information
- Form Factor: Standard single-width 32 bit PMC module conforming to IEEE P1386/P1386.1
- Board size: 149 mm x 74 mm
- PCI 2.2 (33 MHz) compliant interface
- 3.3V PCI signaling with 5V I/O tolerance
- CAN Bus interface based on CC770F CAN Controller
- Function replacement of Intel's 82527
- Support of 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 11898) per channel
- Maximum transfer rate 1 Mbit/s (bus length up to 40m)
- Operating temperature -40°C to +85°C
- MTBF (MIL-HDBK217F/FN2 G6 20°C)
  - TPMC901-10: 621000 h
  - TPMC901-11: 632000 h
  - TPMC901-12: 645000 h

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## Order Information

<table>
<thead>
<tr>
<th>RoHS Compliant</th>
<th>6 Channel Extended CAN Bus Interface D-Sub male 25-pin front panel I/O, extended temperature range</th>
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<td>TPMC901-12</td>
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</table>

### Documentation
- **TPMC901-DOC**: User Manual
- **TPMC901-ED**: Engineering documentation (TPMC901-DOC, Schematics, Assembly Drawing, Data Sheets)

### 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
- **TA302**: Cable Kit for modules with DB25 male connector