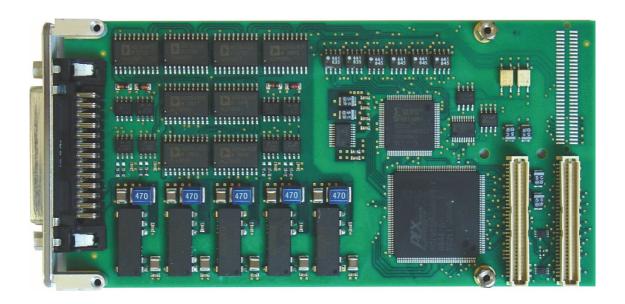


TPMC551 8/4 Channels of Isolated 16-Bit D/A



Application Information

The TPMC551 is a standard single-width 32-bit PMC module providing optically isolated 16-bit analog outputs.

The number of D/A channels and the I/O connector depends on the module version. Settling time to 0.003% is $10\mu s$ typical. Immediate and simultaneous loading are supported.

A sequencer allows periodical updates of enabled channels and the sequence timer range extends from 100µs to 6.5s.

The TPMC551 offers two output voltage ranges, ±10 V and 0-10V, which are selectable by solder pads. An on

board DC/DC converter powers the isolated DAC and the output buffers.

Each TPMC551 is delivered factory calibrated. The calibration information is stored in the Calibration-PROM unique to each PMC module.

Software Support (TPMC551-SW-xx) is available for different operating systems.

Technical Information

- O Form Factor: Standard single-width 32-bit PMC module conforming to IEEE P1386/P1386.1
 - O Board size: 147.5 mm x 74 mm
 - O PCI v2.2 compliant interface
 - O 3.3V and 5V PCI Signaling Voltage
- O 16-bit D/A conversion
 - O ...10V or ±10V selectable output voltage range
 - O 10µs maximum settling time
 - O 4mA, 1000pF maximum load

- O I/O access:
 - O Front panel I/O: DB25 female connector
 - O Back I/O: PMC P14 I/O connector
- O Operating temperature -40°C to +85°C
- O MTBF (MIL-HDBK217F/FN2 G_B 20°C)

TPMC551-10R: 371000h TPMC551-11R: 512000h TPMC551-20R: 353000h TPMC551-21R: 479000h



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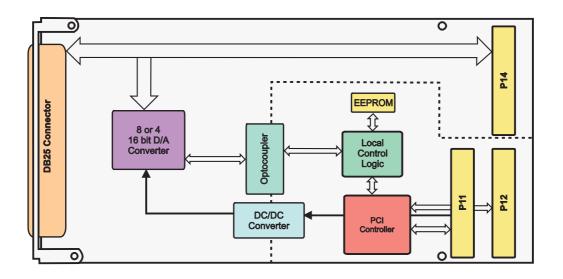
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The Embedded I/O Company



Order Information

RoHS Compliant

 TPMC551-10R
 8 Channel Isolated 16 bit D/A, +/- 10V or 0-10V, DB25

 TPMC551-11R
 4 Channel Isolated 16 bit D/A, +/- 10V or 0-10V, DB25

 TPMC551-20R
 8 Channel Isolated 16 bit D/A, +/- 10V or 0-10V, P14 I/O

 TPMC551-21R
 4 Channel Isolated 16 bit D/A, +/- 10V or 0-10V, P14 I/O

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

Documentation

TPMC551-DOC User Manual

Software

TPMC551-SW-25 Integrity Software Support

TPMC551-SW-42 VxWorks Software Support (Legacy and VxBus-Enabled Software Support)

TPMC551-SW-82 Windows Software Support
TPMC551-SW-95 QNX Software Support

For other operating systems please contact TEWS.

Related Products

TA303 Cable Kit for Modules with DB25 Female Connector

TPIM002 PIM I/O Module, HD50 connector

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