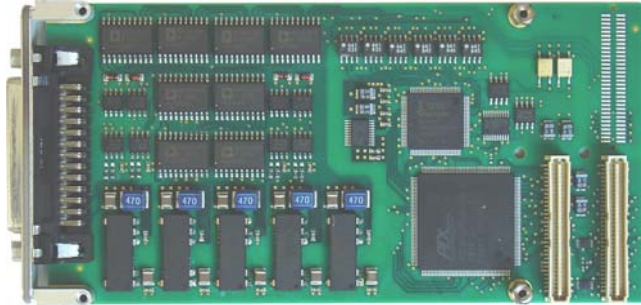


TPMC551 8/4 Channels of Isolated 16-Bit D/A

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 10µs 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.

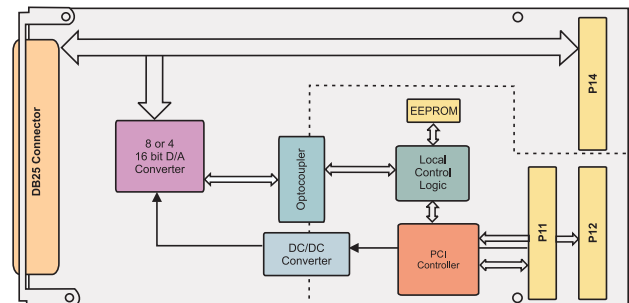
The TPMC551 offers two output voltage ranges, ± 10 V and 0-10V, which are selectable by solder pads. An on board DC/DC converter powers the isolated DAC and the output buffers.

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

For First-Time-Buyers the engineering documentation TPMC551-ED is recommended. The engineering documentation includes TPMC551-DOC, schematics and data sheets of TPMC551.

Technical Information

- Form Factor: Standard single-width 32-bit PMC module conforming to IEEE P1386/P1386.1
 - Board size: 147.5 mm x 74 mm
 - PCI v2.2 compliant interface
 - 3.3V and 5V PCI Signaling Voltage
- 16-bit D/A conversion
 - 0...10V or ± 10 V selectable output voltage range
 - 10µs maximum settling time
 - 4mA, 1000pF maximum load
- I/O access:
 - Front panel I/O: DB25 female connector
 - Back I/O: PMC P14 I/O connector
- Operating temperature -40°C to +85°C
- MTBF (MIL-HDBK217F/FN2 G_B 20°C)
 - TPMC551-10x: 371000h
 - TPMC551-11x: 512000h
 - TPMC551-20x: 353000h
 - TPMC551-21x: 479000h



The Embedded I/O Company

Order Information

RoHS Compliant

TPMC551-10R	8 Channels of Isolated 16-bit D/A, Front Panel I/O
TPMC551-11R	4 Channels of Isolated 16-bit D/A, Front Panel I/O
TPMC551-20R	8 Channels of Isolated 16-bit D/A, P14 I/O
TPMC551-21R	4 Channels of Isolated 16-bit D/A, P14 I/O

None RoHS Compliant

TPMC551-10	None RoHS compliant version of TPMC551-10R
TPMC551-11	None RoHS compliant version of TPMC551-11R
TPMC551-20	None RoHS compliant version of TPMC551-20R
TPMC551-21	None RoHS compliant version of TPMC551-21R

Documentation

TPMC551-DOC	User Manual
TPMC551-ED	Engineering Documentation, includes TPMC551-DOC

Software

TPMC551-SW-25	Integrity Software Support
TPMC551-SW-42	VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
TPMC551-SW-65	Windows XP/XPE/2000 Software Support
TPMC551-SW-72	LynxOS Software Support
TPMC551-SW-82	LiNux Software Support
TPMC551-SW-95	QNX 6 Software Support

For other operating systems please contact TEWS.

Related Products

TA303	Cable Kit for modules with DB25 female connector (for front I/O)
TA304	Cable Kit for modules with HD68 SCSI-3 type connector (for rear I/O)
TPIM002	PIM I/O Module with HD68 SCSI-3 type connector