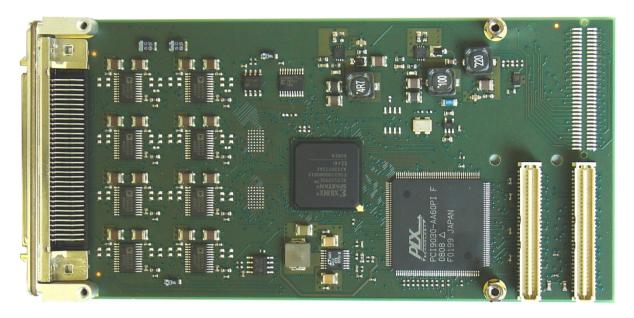


TPMC553 32 /16 Channels of 16 bit D/A



Application Information

The TPMC553 is a standard single-wide 32 bit PMC module and provides 32/16 channels of 16 bit analog outputs. All signals are accessible through a HD68 SCSI-3 type front I/O connector.

The software selectable output voltage ranges are 0-5V, 0-10V, 0-10.8V, ±5V, ±10V or ±10.8V. The output voltage range can be individually set per channel. The conversion time is typ. 10 µs and the DAC outputs are capable to drive a load of $2k\Omega$, with a capacitance up to 4000pF.

Beside of an individual channel update, the double buffered DACs allow simultaneous update of all channels. Additionally a sequencer on the TPMC553 allows to periodically update enabled channels with a sequence timer range that extends from 10µs to 167s.

Each TPMC553 is factory calibrated. The calibration information is stored in an on board serial EEPROM unique to each PMC module.

Software Support (TDRV016-SW-xx) is available for different operating systems.

Technical Information

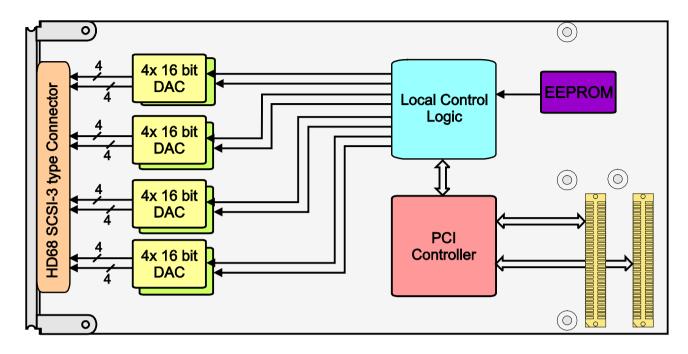
- Form Factor: Standard single-width 32 bit PMC module conforming to IEEE P1386.1
 - Board size: 149 mm x 74 mm
 - Target Chip: PCI9030 (PLX Technology)
 - O PCI 2.1 compliant interface
 - O PCI I/O signaling voltage 5V or 3.3V
- 32/16 channels single-ended 16 bit analog output
 - O Programmable output voltage: 0-5V, 0-10V, 0-10.8V, ±5V, ±10V, ±10.8V
 - Conversion time: typ.10µs
 - O Up to $2k\Omega$ resistive, 4000pF capacitive load
 - O Overcurrent protection
 - Individual channel update, simultaneous update of all channels or sequencer mode
- Factory calibration data stored in EEPROM
- Operating temperature -40°C to +85°C
- MTBF (MIL-HDBK217F/FN2 G_B 20°C):

TPMC553-10R: 683000 h TPMC553-11R: 689000 h

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The Embedded I/O Company



Order Information

RoHS Compliant

TPMC553-10R 32 Channel 16 bit D/A, sequencer, simultaneous update, progr. Vout, HD68 16 Channel 16 bit D/A, sequencer, simultaneous update, progr. Vout, HD68

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

Documentation

TPMC553-DOC User Manual

Software

TDRV016-SW-25 Integrity Software Support

TDRV016-SW-42 VxWorks Software Support (Legacy and VxBus-Enabled Software Support)

TDRV016-SW-65 Windows Software Support
LynxOS Software Support
Linux Software Support
CNX Software Support
CNX Software Support
CNX Software Support

For other operating systems please contact TEWS.

Related Products

TA304 Cable Kit for Modules with HD68 Connector

TPIM002 PIM I/O Module, HD68 connector

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