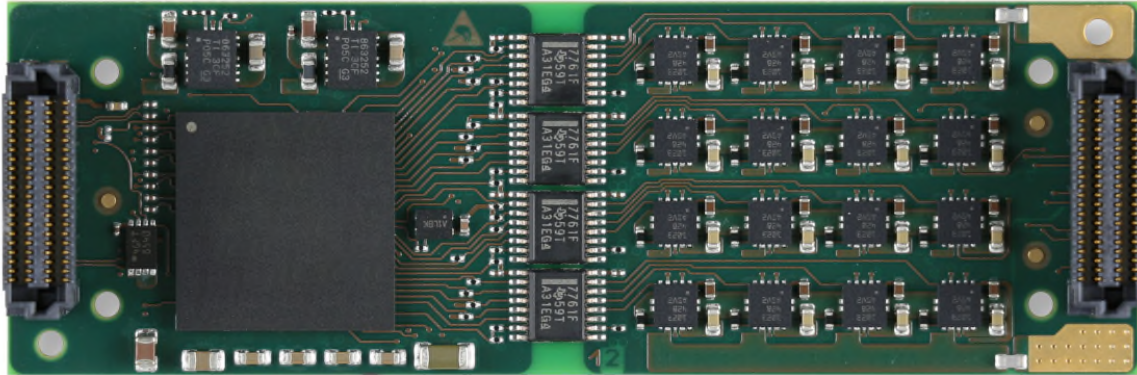


## TQMC604 32 Isolated Digital Outputs (5-36 V, 0.15 A)



TQMC604-10R

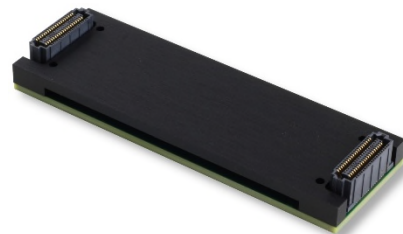
### Application Information

The TQMC604 is a standard single-width QMC module conforming to the VITA 93.0 standard for small form factor (SFF) mezzanine modules. It offers 32 digital outputs with galvanic isolation. The output drivers work with 5-36 Volt supply and are capable of driving 0.15 A continuous per channel. All outputs resist short-circuits and are protected against reverse polarity, thermal overload and overvoltage events up to 65 Volt. Outputs are isolated from the system and in groups of eight against each other. Each group of 8 output can be software configured as high side or low side switch.

A hardware watchdog clears all outputs in case of trigger failure.

Software Support for different operating systems is available.

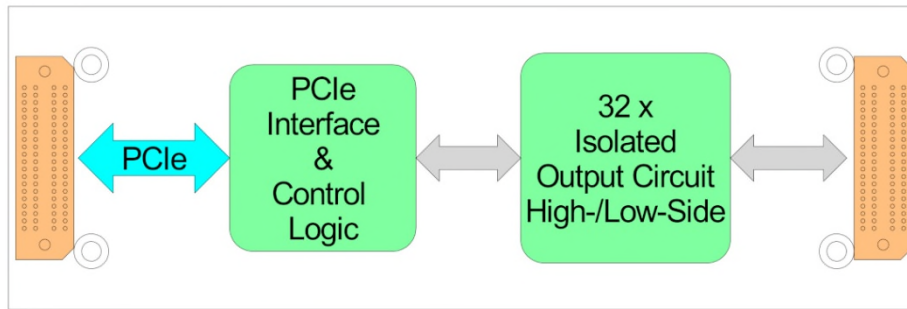
The TQMC604 is available as air cooled and conduction cooled variant.



Conduction Cooled QMC

### Technical Information

- Form Factor: Standard single QMC module conforming to VITA 93.0
  - Board size: 26 mm x 78.25 mm
- PCI Express 2.1 compliant interface
- IPMI resource: FRU hardware definition information stored in on-board EEPROM
- 32 digital outputs
  - High-side switch
  - Low-side switch
  - Up to 4 us update rate
  - 5-36 V supply voltage
  - 0.15 A per output
- Outputs are isolated from the system and in groups of eight against each other
- Output short-circuit protection
- Output overcurrent protection with min. 175 us blanking time
- Outputs withstand up to 65 V, even during reverse polarity condition
- Outputs are protected against thermal overload
- Watchdog timer resets all channels in case of trigger failure
- Operating temperature -40 °C to +85 °C
- MTBF (MIL-HDBK217F/FN2 GB 20 °C)
  - Contact factory



Block Diagram

### Order Information

#### RoHS Compliant

- TQMC604-10R-A** 32 Isolated Digital Outputs (5-36 V, 0.15 A), air cooled  
**TQMC604-10R-H** 32 Isolated Digital Outputs (5-36 V, 0.15 A), conduction cooled

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

#### Software

- TDRV024-SW-25** Integrity Software Support  
**TDRV024-SW-42** VxWorks Software Support  
**TDRV024-SW-65** Windows Software Support  
**TDRV024-SW-82** Linux Software Support  
**TDRV024-SW-95** QNX Software Support

For other operating systems please contact TEWS.