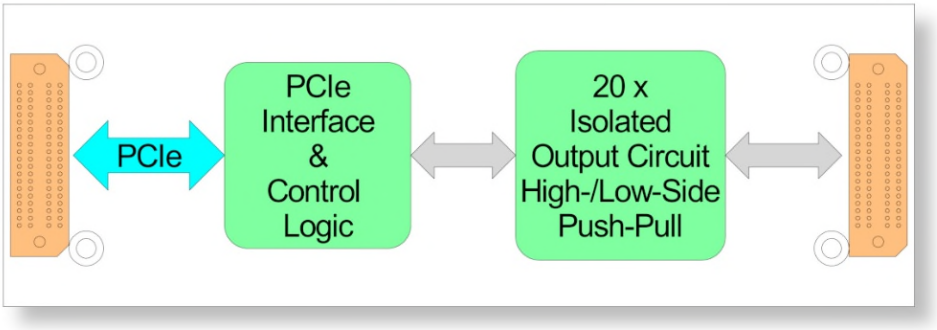
TQMC603 20 Digital Outputs (5-36 V, 0.3 A)



TQMC603

Application Information

The TQMC603 is a standard single-width QMC module conforming to the VITA 93.0 standard for small form factor (SFF) mezzanine modules. It offers 20 digital outputs with galvanic isolation. The output drivers work with 5-36 Volt supply and are capable of driving 0.3 A continuous per channel. All outputs resist short-circuits and are protected against reverse polarity, thermal overload and overvoltage events up to 65 Volt. Individual fault indicator status is software readable. Each output can be software configured as high side switch, low side switch or push-pull driver.

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

Software Support for different operating systems is available.

The TQMC603 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
- 20 digital outputs
  - High-side switch
  - Low-side switch
  - Push-Pull
  - Up to 4 us update rate
  - 5-36 V supply voltage
  - 0.3 A per output
- Outputs are isolated from the system and in groups of four 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
- Mean Time between Failure (MTBF)
  - Contact factory

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Order Information

RoHS Compliant

TQMC603-10R-A 20 Digital Outputs (5-36 V, 0.3 A), air cooled
TQMC603-10R-H 20 Digital Outputs (5-36 V, 0.3 A), conduction cooled

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

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