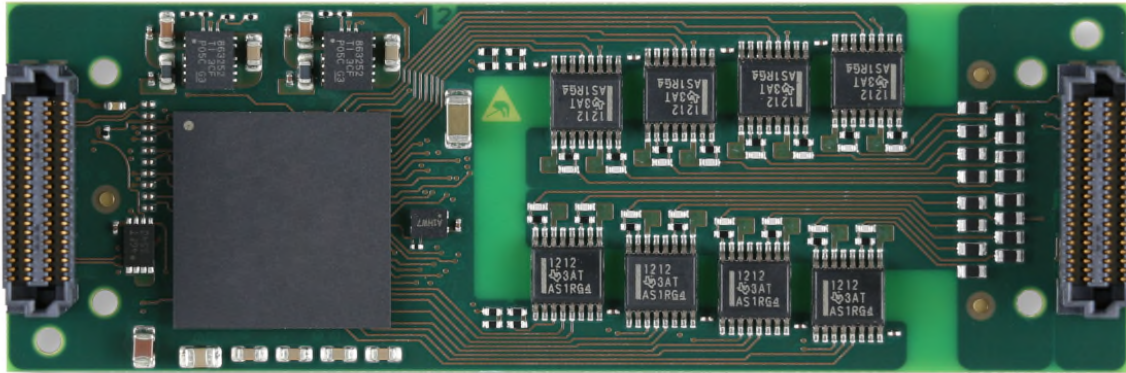


TQMC601 32 Isolated Digital Inputs (15-60V)



TQMC601-10R

Application Information

The TQMC601 is a standard single-width QMC module conforming to the VITA 93.0 standard for small form factor (SFF) mezzanine modules. It offers 32 isolated digital inputs that allow reading signals from a multitude of sensors or devices.

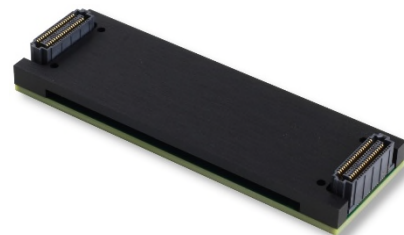
Each input can be operated with signalling voltages of 15-60 Volt.

The individual inputs are separated in groups of 8 sharing a common input ground. These groups are potential free to each other. A high performance input circuit ensures a defined switching point and polarization protection against confusing the pole. All inputs have an electronic debounce circuit with a programmable debounce time.

All inputs can generate an interrupt. The signal edge handling is programmable.

Software Support for different operating systems is available.

The TQMC601 is available as air cooled and conduction cooled variant.



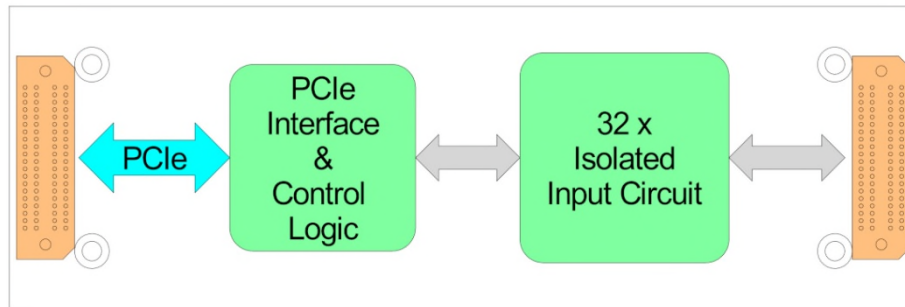
Conduction Cooled QMC

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 interrupt generating digital inputs
 - 150 ns minimum pulse width
- IEC 61131-2 Type 3 input-characteristic
 - Designed for 24 V typical input voltage
 - OFF < 5 Volt
 - ON > 11 Volt
 - 2.3 mA typical input current
- other input characteristics on request
- 60 Volt maximum input voltage
- galvanic isolation of inputs to computer
- All inputs isolated to each other in groups of eight inputs
- Protection against confusing the pole
- Programmable electronic debounce circuit
- Operating temperature -40 °C to +85 °C
- Mean Time between Failure (MTBF)
 - Contact factory

TEWS Technologies GmbH keeps the right to change technical specification without further notice.
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Issue 1.0.3
June 10, 2026



Block Diagram

Order Information

RoHS Compliant

- TQMC601-10R-A** 32 Isolated Digital Inputs (15-60V), air cooled
- TQMC601-10R-H** 32 Isolated Digital Inputs (15-60V), 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.