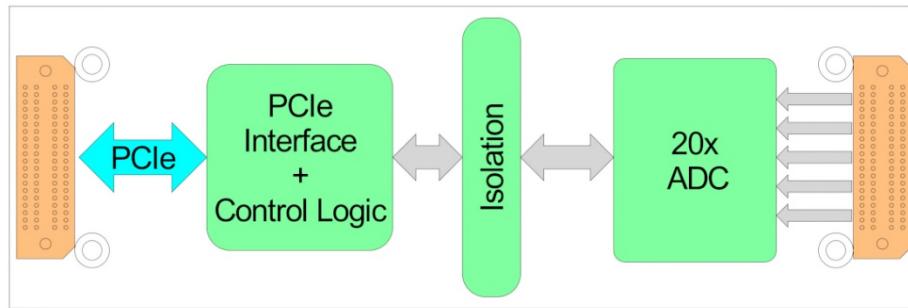


## TQMC500 20 Isolated Analog Inputs, simultaneous sampling



TQMC500

### Application Information

The TQMC500 is a standard single-width QMC module conforming to the VITA 93.0 standard for small form factor (SFF) mezzanine modules. This versatile QMC module offers 20 channels of isolated 16 bit simultaneous sampling analog input.

The ADCs offer true differential or single-ended inputs with multiple software selectable input voltage ranges (individual setting per channel). The sampling rate is up to 800 kSPS and the ADC offers an oversampling capability with digital filter.

Software Support for different operating systems is available.

Each ADC provides a 1024 sample FIFO with programmable trigger levels. Data transfer is handled by TQMC500 initiated DMA cycles with minimum host/CPU intervention.

The TQMC500 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 channels isolated analog input
  - 16 bit resolution
  - Simultaneous sampling
  - Sampling rate: 800 kSPS
  - Overvoltage protection
- Differential and single-ended input signals supported
- Programmable input voltage range:
  - single-ended:  $\pm 12.5$  V,  $\pm 10$  V,  $\pm 6.25$  V,  $\pm 5$  V,  $\pm 2.5$  V, 0 V to 12.5 V, 0 V to 10 V, 0 V to 5 V
  - differential:  $\pm 20$  V,  $\pm 12.5$  V,  $\pm 10$  V,  $\pm 5$  V
- Operating temperature  $-40$  °C to  $+85$  °C
- Mean Time Between Failure (MTBF)
  - Contact factory

**Order Information****RoHS Compliant**

**TQMC500-10R-A** 20 isolated analog inputs, simultaneous sampling, air cooled

**TQMC500-10R-H** 20 isolated analog inputs, simultaneous sampling, conduction cooled

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