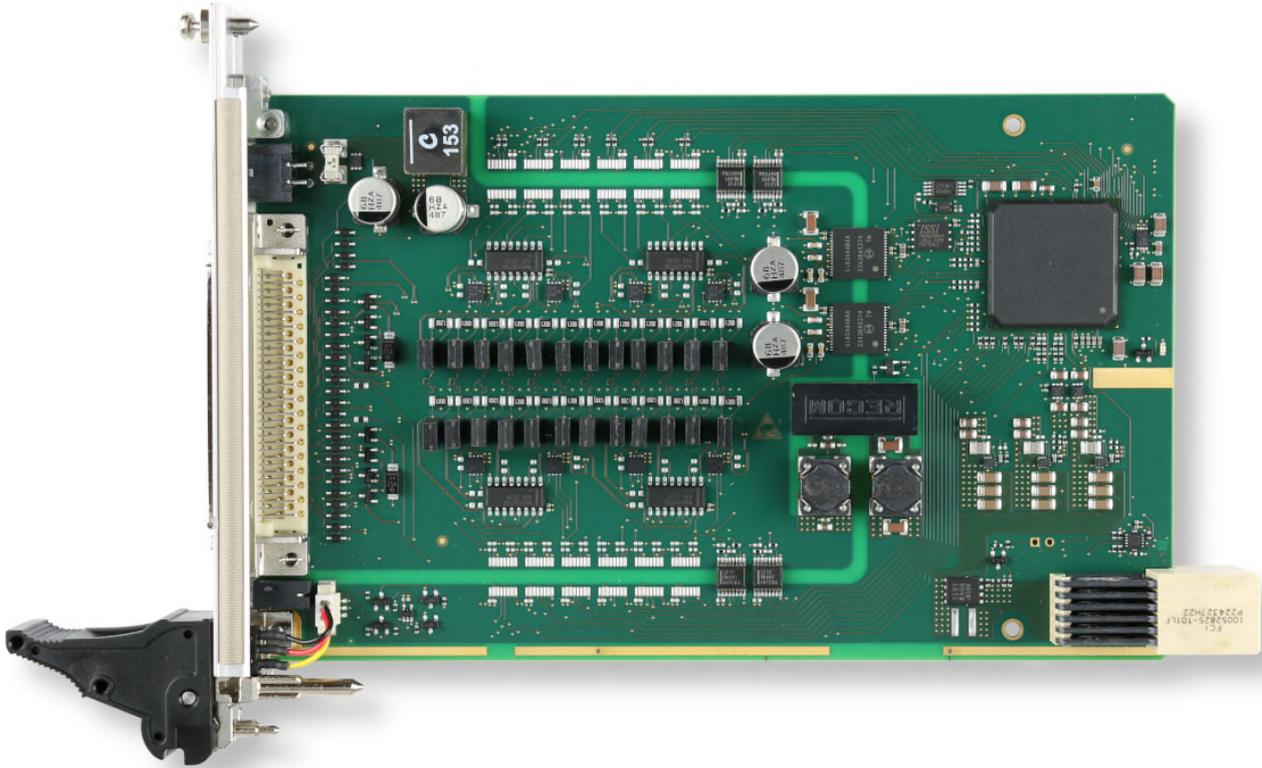


TCPS118 8 Channel SSI, Incremental Encoder, Counter



TCPS118-10R

Application Information

The TCPS118 is a PICMG CPCI-S.0 R2.0 compatible 3U module with eight isolated multifunction counter channels. Each channel can act as a general purpose or quadrature counter for incremental encoders, or as a SSI master. The capabilities of each channel are similar to a TPMC117 channel. All counter and SSI inputs are TTL/RS-422 compatible. Alternatively a 24 V input option is available, in this case only the counter functions are supported. The input signals pass a digital filter for noise suppression before they are further used.

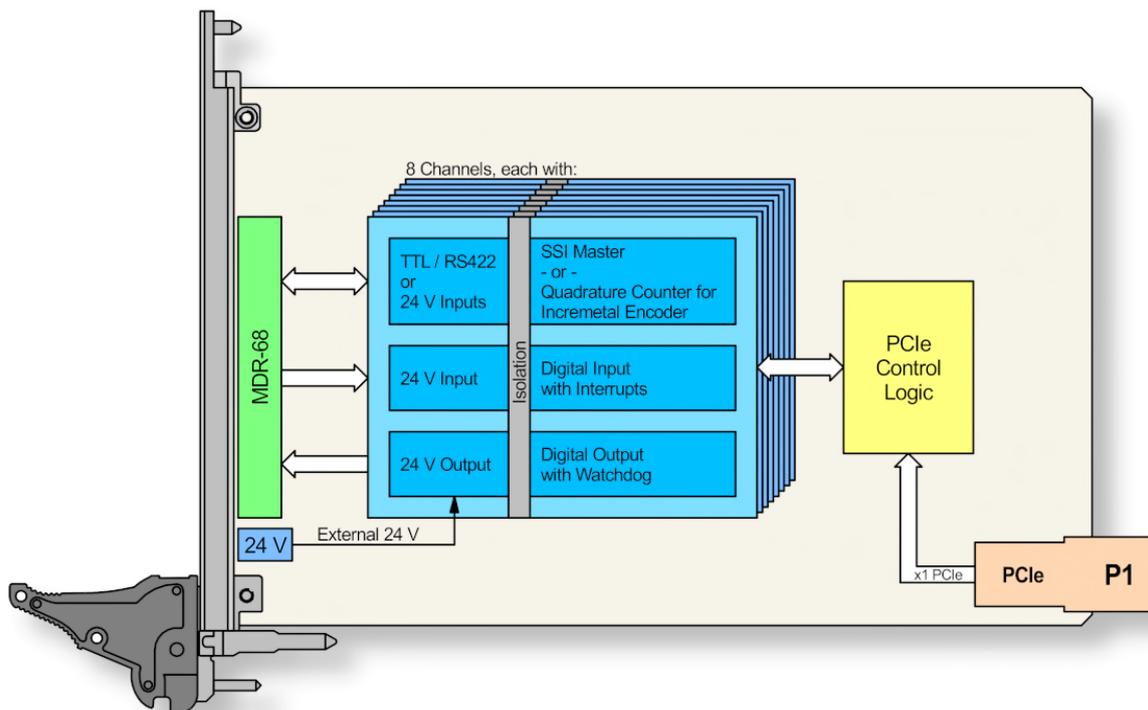
In addition each channel provides an isolated 24 V digital input, and an isolated 24 V digital output, acting as a high-side switch that switches an externally provided 24 V supply voltage.

All I/O is available through a MDR-68 connector.

Software Support (TCPS118-SW-xx) for different operating systems is available.

Technical Information

- Form Factor: 3U CPCI-S.0 R2.0
 - Board size: 160 mm x 100 mm
- PCI Express 2.1 compliant x1 interface
- 8 isolated 32-bit multifunction counter channels
 - SSI master
 - General purpose counter
 - Quadrature counter
- Input compatibility
 - -10R: TTL or RS-422 compatible
 - -20R: 24 V inputs
- Digital input filter
- 8 isolated 24 V inputs
- 8 isolated 24 V high-side outputs
- MDR68 I/O Connector
- Operating temperature -40 °C to +85 °C
- MTBF (MIL-HDBK217F/FN2 GB 20 °C)
 - TCPS118-10R: 133000 h
 - TCPS118-20R: 420000 h



Block Diagram

Order Information

RoHS Compliant

- TCPS118-10R** 8 Channel SSI or Incremental Encoder and Counter Interface, RS-422/TTL I/O, 8x 24 V Input, 8x 24 V Output
- TCPS118-20R** 8 Channel Incremental Encoder and Counter Interface, 24 V I/O, 8x 24 V Input, 8x 24 V Output

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

Software

- TCPS118-SW-25** Integrity Software Support
- TCPS118-SW-42** VxWorks Software Support
- TCPS118-SW-65** Windows Software Support
- TCPS118-SW-82** Linux Software Support
- TCPS118-SW-95** QNX Software Support

For other operating systems please contact TEWS.

Related Products

- TA312** Cable Kit for modules with MDR68 connector