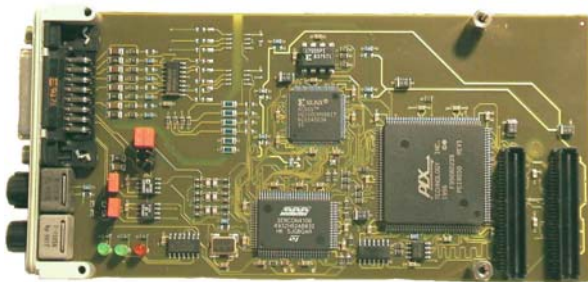


## TPMC812 SERCOS Controller with Two Hand Wheel Interfaces

### Application Information

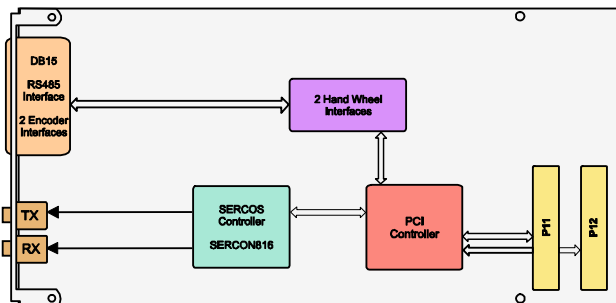
The TPMC812 is a standard single-width 32 bit PMC module with a complete SERCOS bus interface using the SERCON816 SERCOS Controller in SERCON410B Compatible Mode. The physical interface supports RS485 on board as well as optical fiber ring.

In addition the TPMC812 offers two encoder interface ports to provide hand wheel functionality. The encoder interface supports RS422 and TTL signal levels.



For First Time Users the Engineering Documentation TPMC812-ED is recommended. The Engineering Documentation includes TPMC812-DOC, schematics and data sheets.

Software support (TPMC812-SW-xx) for different operating systems is available.



### Technical Information

- Standard single-width 32 bit PMC module conforming to IEEE P1386.1
- PCI 2.1 compliant interface
- 3.3V and 5V PCI Signaling Voltage
- Board size: 149 mm x 74 mm
- SERCOS interface based on SERCON816 chip (SERCON410B Compatible Mode only)
- Single chip controller for SERCOS interface
- Dual Port RAM 1024 words x 16 bit addressable
- Transmission rate up to 4 Mbaud with internal clock recovery
- Internal repeater for ring connections
- Full duplex operation
- Physical interface optical fiber ring or RS485
- Two encoder interface ports (RS422 or TTL input) for hand wheel functionality

### Order Information

#### RoHS Compliant

- TPMC812-10R** SERCOS Controller
- TPMC812-11R** Same as TPMC812-10R but optically isolated encoder interface

#### None RoHS Compliant

- TPMC812-10 None RoHS compliant version of TPMC812-10R
- TPMC812-11 None RoHS compliant version of TPMC812-11R

#### Documentation

- TPMC812-DOC** User Manual
- TPMC812-ED** Engineering Documentation, includes TPMC812-DOC

#### Software

- TPMC812-SW-25** Integrity Software Support
- TPMC812-SW-42** VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
- TPMC812-SW-65** Windows XP/XPE/2000 Software Support
- TPMC812-SW-72** LynxOS Software Support
- TPMC812-SW-82** LINUX Software Support
- TPMC812-SW-95** QNX 6 Software Support

For other operating systems please contact TEWS.