

TIP812 SERCOS Controller

Application Information

The TIP812 is an IndustryPack® compatible module with a complete SERCOS bus interface using the SERCOS interface controller SERCON410 and two encoder interfaces (X4 quadrature inputs, 8 bit encoder counters) to support hand wheel functionality.



For the SERCON410 the TIP812-20 supports both physical interfaces, RS485 and optical fiber. The physical interfaces are located on the TIP812-TM-20 or TIP812-TM-21 Transition Module which is required for the TIP812-20.

The interfaces for the two encoder counters on the TIP812-20 support RS422 or TTL encoder signals. The RS422 / TTL physical interface is located on the TIP812-TM-20 Transition Module. An optical isolated RS422 physical interface is available with the TIP812-TM-21 Transition Module.

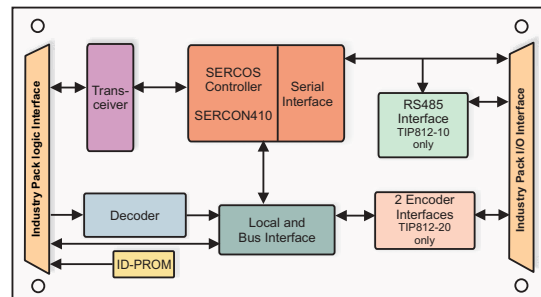


For First-Time-Buyers the engineering documentation TIP812-ED is recommended. The engineering documentation includes TIP812-DOC, schematics and data sheets.

Driver support (TIP812-SW-xx) for different operating systems is available.

Technical Information

- Interface according to IndustryPack specification
- Identification-PROM supports auto-configuration
- Single Size IndustryPack
- SERCOS interface based on SERCON410 chip
 - Single Chip Controller for SERCOS interface
 - Dual Port RAM 1024 words x 16 bit
 - Transmission rate up to 4 MBaud with internal clock recovery
 - Internal repeater for ring connections
 - Full duplex operation
 - 2 Encoder Interfaces to support hand wheels on TIP812-20
- Physical Interface
 - RS485 on board (TIP812-10 only)
 - Optical fiber ring off board by additional transition module TIP812-TM-10 for TIP812-10 and TIP812-TM-20/21 for TIP812-20



Order Information

TIP812-10	SERCOS-Controller
TIP812-20	SERCOS-Controller with 2 Encoder Interfaces
TIP812-TM-10	Transition Module for Optical Fiber Ring
TIP812-TM-20	Transition Module for Optical Fiber Ring
TIP812-TM-21	As TIP812-20 but isolated encoder Interfaces
TIP812-DOC-10	User Documentation for TIP812-10
TIP812-DOC-20	User Documentation for TIP812-20
TIP812-ED	Engineering Documentation, includes TIP812-DOC
TIP812-SW-12	OS-9 Software Support
TIP812-SW-32	pSOS Software Support
TIP812-SW-42	VxWorks Software Support
TIP812-SW-62	Windows NT 4.0 Software Support
TIP812-SW-72	LynxOS Software Support
TIP812-SW-82	LiNux Software Support
TIP812-SW-92	QNX 4 Software Support
TIP812-SW-95	QNX 6 Software Support