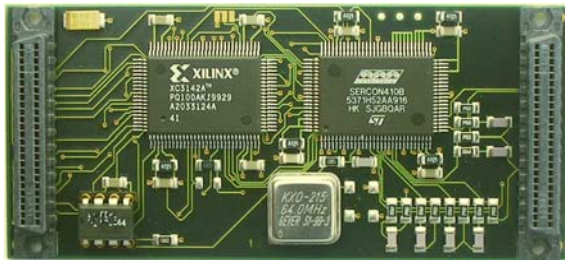


The Embedded I/O Company

TIP812 SERCOS Controller

Application Information

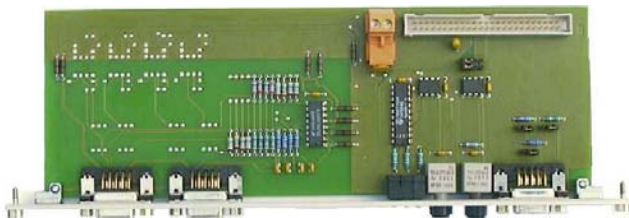
The TIP812 is an IndustryPack® compatible module with a complete SERCOS bus interface using the SERCON816 SERCOS controller in SERCON410B Compatible Mode plus two encoder interface ports (X4 quadrature, 8 bit encoder counters) to support hand wheel functionality.



TIP812-20R

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

The encoder interface on the TIP812-20x supports RS422 or TTL signals. The RS422 / TTL physical interface is located on the TIP812-TM-20x Transition Module. An optical isolated RS422 physical interface is available with the TIP812-TM-21x Transition Module.



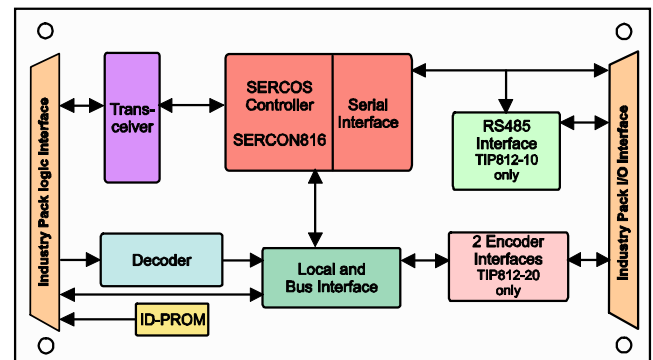
TIP812-TM-20R

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

Software 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 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
- 2 Encoder Interface Ports to support hand wheels (TIP812-20x only)
- Physical Interface
 - RS485 on board (TIP812-10x only)
 - Optical fiber ring off board by additional transition module TIP812-TM-10x for TIP812-10x and TIP812-TM-20x/21x for TIP812-20x



Order Information

RoHS Compliant

TIP812-10R	SERCOS-Controller
TIP812-20R	SERCOS-Controller with 2 Encoder Interfaces
TIP812-TM-10R	Transition Module for Optical Fiber Ring for TIP812-10R
TIP812-TM-20R	Transition Module for Optical Fiber Ring and 2 Encoder Interfaces for TIP812-20R
TIP812-TM-21R	As TIP812-TM-20R but isolated encoder Interfaces

None RoHS Compliant

TIP812-10	None RoHS compliant version of TIP812-10R
TIP812-20	None RoHS compliant version of TIP812-20R
TIP812-TM-10	None RoHS compliant version of TIP812-TM-10R
TIP812-TM-20	None RoHS compliant version of TIP812-TM-20R
TIP812-TM-21	None RoHS compliant version of TIP812-TM-21R

Documentation

TIP812-DOC-10	User Manual for TIP812-10x
TIP812-DOC-20	User Manual for TIP812-20x
TIP812-ED	Engineering Documentation, includes TIP812-DOC

Software

TIP812-SW-25	Integrity Software Support
TIP812-SW-42	VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
TIP812-SW-65	Windows XP/XPE/2000 Software Support
TIP812-SW-72	LynxOS Software Support
TIP812-SW-82	LiNIX Software Support
TIP812-SW-95	QNX 6 Software Support

For other operating systems please contact TEWS.