

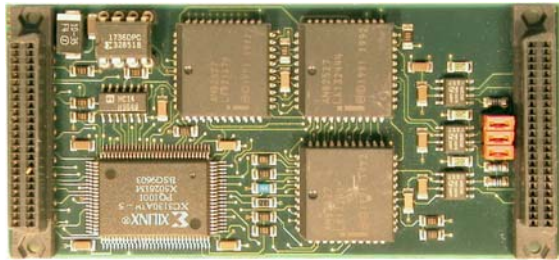
TIP903 Three Channel Extended CAN Bus Controller

Application Information

The TIP903 is an IndustryPack® compatible module with three complete CAN bus interfaces using three Intel 82527 CAN controllers. The controller supports the standard data and remote frame as well as the extended data and remote frame according to CAN specification 2.0 part A and part B. It has the capability to transmit, receive and perform messages filtering on extended and standard messages.

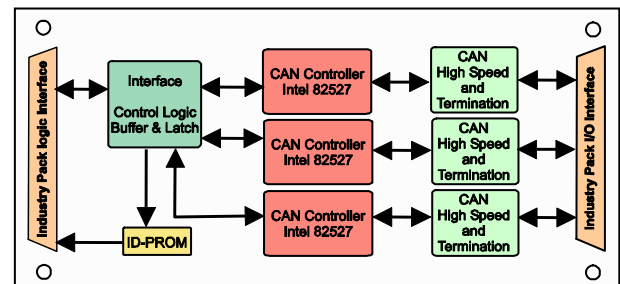
The TIP903 supports a 16 bit bus interface which permits word and byte accesses to the internal registers of the three CAN controllers. The physical interface supports CAN High Speed according to ISO11898 for each of the three channels.

The bus line termination is selectable by a jumper separate for each bus line. The data transfer rates up to 1 Mbps for bus line length up to 40 m are supported.



Technical Information

- Interface according to IndustryPack specification
- Identification-PROM supports auto-configuration
- Single Size IndustryPack
- Three CAN bus interfaces based on Intel 82527 chip
- Support CAN specification 2.0 part A and part B (Standard and Extended Data Frames)
- Programmable global mask
- 15 message objects of 8 bit data length
- Powerful error handling
- Programmable transfer rates
- Physical interface
- CAN High Speed (according to ISO11898)
- Maximum transfer rate 1 Mbit/s (bus length up to 40 m)
- Operating temperature 0°C to +70°C



For First-Time-Buyers the Engineering Documentation TIP903-ED is recommended. The Engineering Documentation includes TIP903-DOC, schematics and data sheets.

Software Support (TIP903-SW-xx) is available for different operating systems.

Order Information

None RoHS Compliant

TIP903-10 Three Channel CAN Bus Controller

Documentation

TIP903-DOC User Manual

TIP903-ED Engineering Documentation, includes
TIP903-DOC

Software

TIP903-SW-25 Integrity Software Support

TIP903-SW-42 VxWorks Software Support
(Legacy and VxBus-Enabled Software
Support)

TIP903-SW-65 Windows XP/XPE/2000 Software
Support

TIP903-SW-72 LynxOS Software Support

TIP903-SW-82 LiNux Software Support

TIP903-SW-95 QNX 6 Software Support

For other operating systems please contact TEWS.