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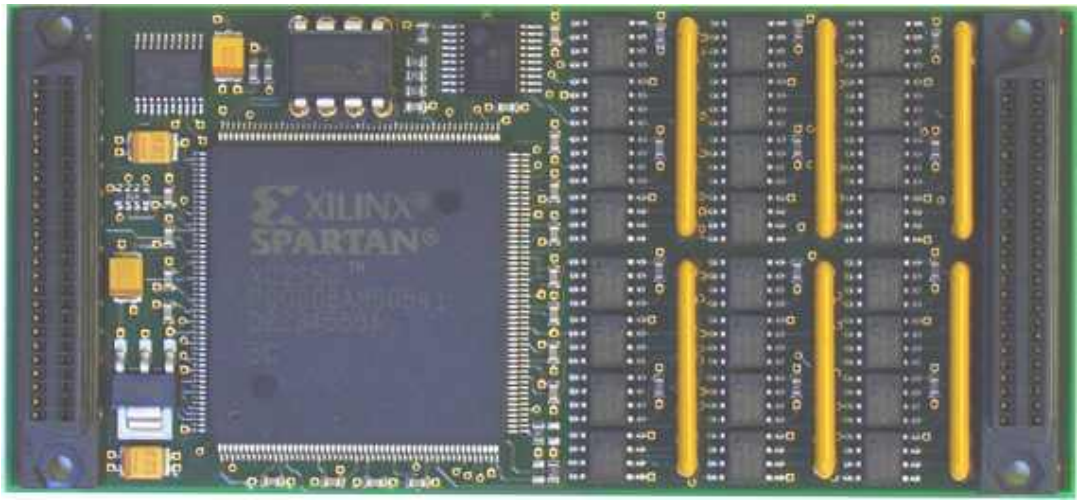
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The Embedded I/O Company

TIP672 24 Differential I/O Lines with Interrupts



Application Information

The TIP672 is an IndustryPack® compatible module providing 24 digital differential I/O lines using EIA-422 / EIA-485 compatible ESD protected line driver and receiver. Each line can be individually configured as differential input or differential output.

The differential receivers are always enabled, allows determining the state of the I/O line at any time. This can be used as read back function for lines configured as outputs.

All 24 input lines can generate an interrupt. Each input interrupt can individually be enabled and cleared. The signal edge handling is programmable.

Configuring an I/O line as output enables the differential transmitter and the I/O line reflects the state programmed in the output register.

Optional the I/O lines can be configured for simultaneous update internally and across several IP's by an external clock source. The polarity of the external clock source is programmable.

6 resistor networks (4 x 120 ohms) mounted in sockets are used to terminate the differential I/O lines. The resistor networks can be removed or changed in value.

After power-on or reset all I/O lines are configured as input and all pending interrupts are cleared.

Software Support (TIP672-SW-xx) is available for different operating systems.

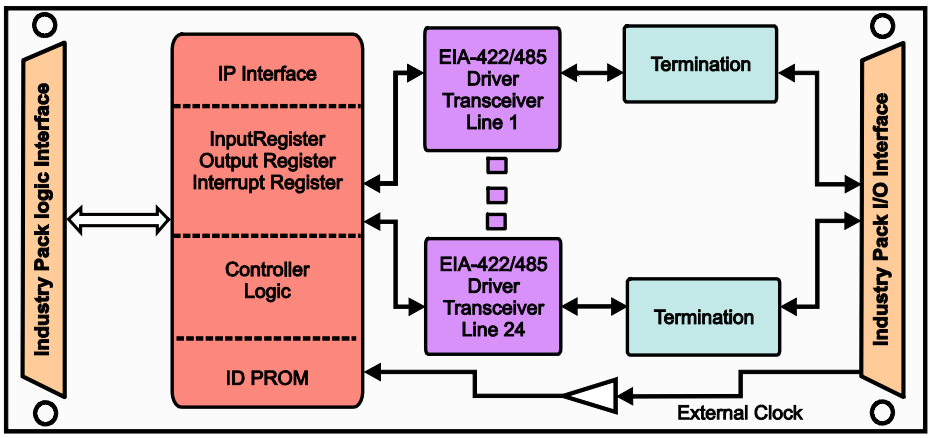
Technical Information

- Interface according to IndustryPack specification
- Identification-PROM supports auto-configuration
- Single Size IndustryPack
- 24 digital I/O lines with differential EIA-422 / EIA-485 compatible ESD protected line driver / receiver
- I/O lines individually programmable as input or output
- Full interrupt capability on inputs
- Six 4 x 120 ohms resistor networks mounted in sockets for I/O line termination
- Programmable simultaneous update feature by external clock source (TTL level)
- Operating temperature range -40°C to +85°C

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Order Information

RoHS Compliant

TIP672-10R 24 Differential I/O Lines with Interrupts
TIP672-10R-ET 24 Differential I/O Lines with Interrupts (Ext. Temperature)

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

Documentation

TIP672-DOC User Manual

Software

TIP672-SW-42 VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
TIP672-SW-65 Windows Software Support
TIP672-SW-82 Linux Software Support
TIP672-SW-95 QNX Software Support

For other operating systems please contact TEWS.

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