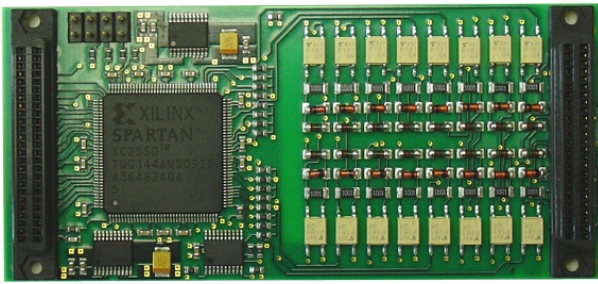# TIP605   16 Interrupt generating Digital Inputs
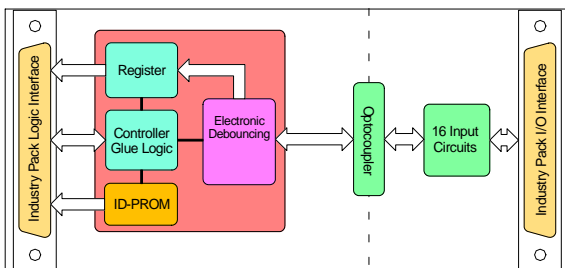
Application Information

The TIP605 is an IndustryPack® compatible module with 16 digital inputs galvanically isolated by optocoupler. The individual inputs are potential free in relation to each other. A high performance input circuit ensures a defined switching point and polarization protection against confusing the pole.

All inputs have an electronic debounce circuit with a freely programmable debounce time. All inputs can generate an interrupt. The signal edge handling is programmable. For the TIP605 the operating temperature range is –40°C to +85°C.

For First-Time-Buyers the Engineering Documentation TIP605-ED is recommended. The Engineering Documentation includes TIP605-DOC, schematics and data sheets.

The driver software TIP605-SW-xx provides functions to configure the TIP605, read the input status and connect software events to input state changes.

Technical Information

❍ Interface according to IndustryPack specification
❍ Identification-PROM supports auto-configuration
❍ Single Size IndustryPack
❍ 16 interrupt generating digital inputs
❍ 24V signal voltage for inputs, other voltages on request
❍ Optocouplers for galvanic isolation of input to computer system
❍ All inputs isolated against each other
❍ All inputs protected against confusing the pole
❍ All inputs have an electronic debounce circuit, debounce time is freely programmable
❍ Operating temperature -40°C to +85°C
❍ MTBF (MIL-HDBK217F/FN2 G_B 20°C) TIP605-xx: 703000h

Order Information

RoHS Compliant
TIP605-10R   16 Interrupt Generating Digital Inputs

None RoHS Compliant
TIP605-10   None RoHS compliant version of TIP605-10R

Documentation
TIP605-DOC   User Manual
TIP605-ED   Engineering Documentation, includes TIP605-DOC

Software
TIP605-SW-25   Integrity Software Support
TIP605-SW-42   VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
TIP605-SW-65   Windows XP/XPE/2000 Software Support
TIP605-SW-72   LynxOS Software Support
TIP605-SW-82   LiNUX Software Support
TIP605-SW-95   QNX 6 Software Support

For other operating systems please contact TEWS.