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TECHNOLOGY GROUP

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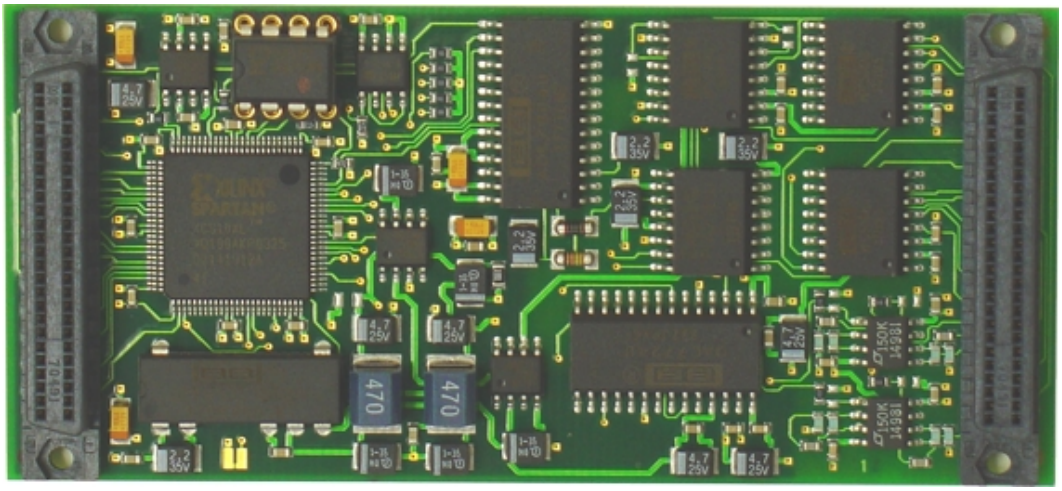
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The Embedded I/O Company

TIP850 16 Channel 12 bit A/D, 4 Channel 12 bit D/A



Application Information

The TIP850 is an IndustryPack® compatible module and offers 16 single-ended or 8 differential channels of 12 bit A/D conversion together with 4 channels of 12 bit D/A conversion.

The input multiplexer of the A/D circuit offers analog overvoltage protection of up to 70Vpp. A programmable gain amplifier allows gains of 1, 10, 100 or 1, 2, 4, 8. The full-scale input range is +/-10V. The data acquisition and conversion time is up to 10µs without channel / gain change and up to 62µs with channel / gain change.

The four D/A channels provide simultaneous loading and output voltages of +/-10V. Default value after reset is 0V for all D/A channels. The settling time to 0.01% is 10µs maximum. Each TIP850 is factory calibrated. The calibration information for A/D and D/A circuits are stored in the Identification PROM unique to each IP.

Software Support (TIP850-SW-xx) is available for different operating systems.

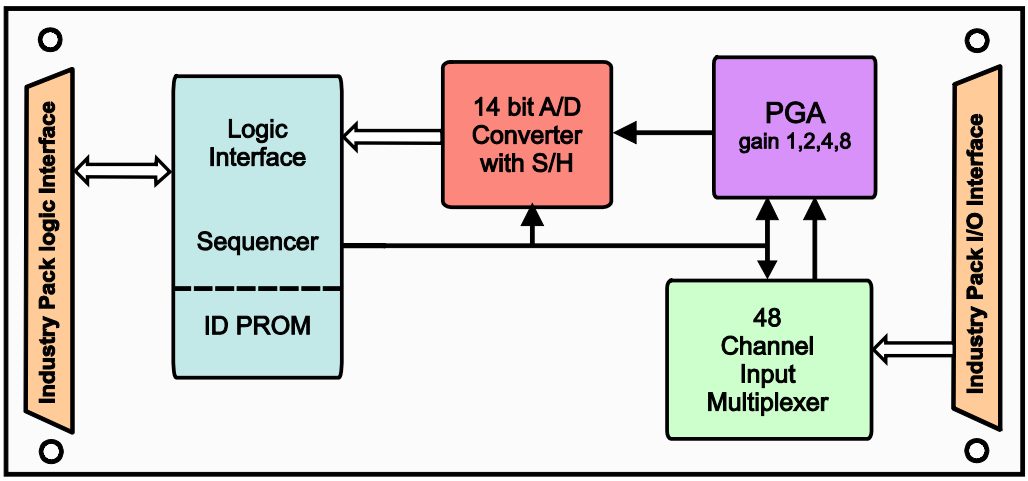
Technical Information

- Interface according to IndustryPack specification
- Identification-PROM supports auto-configuration
- Single Size IndustryPack
- 16 single-ended or 8 differential channels of 12 bit A/D conversion
- ESD protected input multiplexer
- Programmable gain amplifier gain 1, 10, 100 or gain 1, 2, 4, 8
- Complete 12 bit A/D converter with internal S/H and reference (100 KHz)
- Full-scale input range +/- 10 V (gain = 1)
- 4 channels of 12 bit D/A conversion, simultaneous load
- Output range +/-10V, 0V after RESET
- Factory calibrated, calibration information in Identification-PROM unique to each IP
- Operating temperature -40°C to +85°C

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Order Information

RoHS Compliant

TIP850-10R 16 Channel multiplexed 12 bit A/D, gain 1,10,100, +/-10V; 4 Channel D/A, +/-10V
TIP850-11R 16 Channel multiplexed 12 bit A/D, gain 1,2,4,8, +/-10V; 4 Channel D/A, +/-10V

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

Documentation

TIP850-DOC User Manual

Software

TIP850-SW-42 VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
TIP850-SW-65 Windows Software Support
TIP850-SW-82 Linux Software Support
TIP850-SW-95 QNX Software Support

For other operating systems please contact TEWS.

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We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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