

TIP840 8 (16) Channels of 12 bit A/D Conversion

Application Information

The TIP840 is an IndustryPack® compatible module and provides 8 (16) single-ended channels of 12 bit A/D conversion. The data acquisition and conversion time is up to 10µs without channel / gain change and up to 34µs with channel / gain change.

The input multiplexer 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. An interrupt can be generated at end-of-conversion supporting an 8 bit vector.

Each TIP840 is factory calibrated. The calibration information is stored in the Identification-PROM unique to each IP.

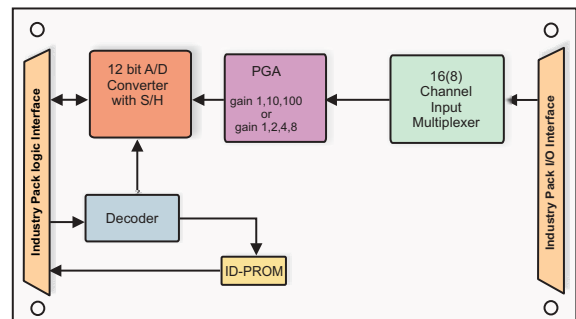


For First-Time-Buyers the engineering documentation TIP840-ED is recommended. The engineering documentation includes TIP840-DOC, schematics and data sheets.

Driver support (TIP840-SW-xx) is available for different operating systems.

Technical Information

- Interface according to IndustryPack specification
- Identification-PROM supports auto-configuration
- Single Size IndustryPack
- 8 (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
- 12 bit A/D converter with internal S/H and reference
- Full-scale input range +/- 10V (gain = 1)
- Interrupt capability at end-of-conversion
- Factory calibrated, calibration information in Identification-PROM unique to each IP



Order Information

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|---------------------|--|
| TIP840-10 | 8 Single-Ended Channels of 12 bit Conversion, gain 1, 10, 100 |
| TIP840-11 | 8 Single-Ended Channels of 12 bit Conversion, gain 1, 2, 4, 8 |
| TIP840-20 | 16 Single-Ended Channels of 12 bit Conversion, gain 1, 10, 100 |
| TIP840-21 | 16 Single-Ended Channels of 12 bit Conversion, gain 1, 2, 4, 8 |
| TIP840-DOC | User Documentation |
| TIP840-ED | Engineering Documentation, includes TIP840-DOC |
| TIP840-SW-12 | OS-9 Software Support |
| TIP840-SW-32 | pSOS Software Support |
| TIP840-SW-42 | VxWorks Software Support |
| TIP840-SW-62 | Windows NT 4.0 Software Support |
| TIP840-SW-72 | LynxOS Software Support |
| TIP840-SW-82 | LiNux Software Support |
| TIP840-SW-92 | QNX 4 Software Support |
| TIP840-SW-95 | QNX 6 Software Support |