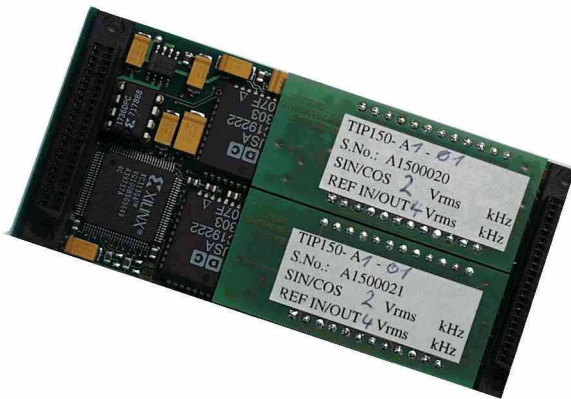


TIP150 1 or 2 Channel Synchro / Resolver-To-Digital-Converter

Application Information

The TIP150 is an IndustryPack® compatible module from TEWS DATENTECHNIK GmbH.

The TIP150 provides one or two channels of a Tracking Synchro/Resolver-To-Digital Converter.



Resolution programming allows selection of 10-, 12-, 14- or 16-bit conversion. This combines the high tracking rate of a 10-bit converter with the precision of a 16-bit converter. Two converter accuracies are available: TIP150-x0 with 4 arcmin +1 LSB and TIP150-x1 with 2 arcmin + 1 LSB. Customer specific Signal Conditioning Adapter (TIP150-Ay-xx) per channel provide an easy interface to the different types of synchro and resolvers. For highest accuracy the on board reference oscillator of the Signal Conditioning Adapter TIP150-A2-xx and TIP150-A4-xx automatically compensates the phase error generated by the synchro / resolver.

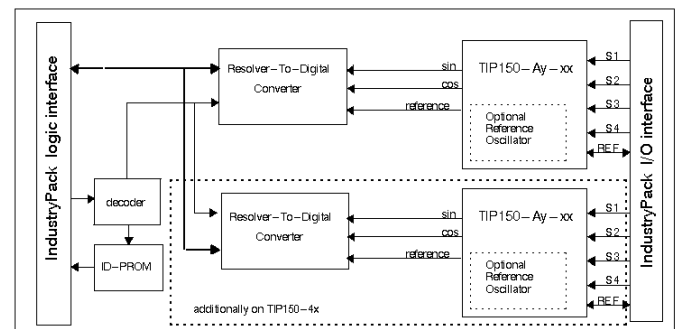
For First-Time-Buyers the engineering kit TIP150-EK is recommended. The engineering kit includes TIP150-DOC, schematics, data sheets, 50 pin terminal block and 50 pin flat cable.

The subroutine package (TIP150-SW-x1) provides a high level language C call interface to the hardware.

TEWS DATENTECHNIK offers a wide range of connection cables and transition modules. Please contact your local sales representative.

Technical Information

- Interface according to IndustryPack specification
- Identification-PROM supports autoconfiguration
- Single size IndustryPack
- One or two channels Tracking Synchro/Resolver-To-Digital-Converter
 - programmable resolution 10-, 12-, 14- or 16- bits
 - adjustable bandwidth
 - converter accuracy 4 or 2 arcmin + 1 LSB
 - velocity output and built-in-test output
 - individual input voltage for each channel by Signal Conditioning Adapter
- Optional reference oscillator for each channel on Signal Conditioning Adapter
 - Oscillator frequency factory selectable 2 - 20 KHz
 - Oscillator amplitude 11.8 Vrms max.
 - Resolver phase error compensation



Order Information

TIP150-30	One channel Tracking RDC, converter accuracy 4 arcmin + 1 LSB
TIP150-31	One channel Tracking RDC, converter accuracy 2 arcmin + 1 LSB
TIP150-40	Two channel Tracking RDC, converter accuracy 4 arcmin + 1 LSB
TIP150-41	Two channel Tracking RDC, converter accuracy 2 arcmin + 1 LSB
TIP150-A1-xx	Resolver Signal Conditioning Adapter
TIP150-A2-xx	Resolver Signal Conditioning Adapter with reference oscillator
TIP150-A3-xx	Synchro/Resolver Signal Conditioning Adapter
TIP150-A4-xx	Synchro/Resolver Signal Conditioning Adapter with reference oscillator
TIP150-DOC	User Manual
TIP150-EK	Engineering kit, includes TIP150-DOC
TIP150-SW-11	OS-9 subroutine support
TIP150-SW-21	VMEexec subroutine support
TIP150-SW-31	pSOS+ subroutine support
TIP150-SW-41	VxWorks subroutine support