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Find the *Tews Technologies TIP866-10* at our website: ***Click HERE***

# TIP866 8 Channel Serial Interface RS232 / TTL / RS422

## Application Information

The TIP866 is an IndustryPack® compatible module providing eight channels of high performance asynchronous serial interface. Three different modules are available. The TIP866-10x provides RS232 interface, the TIP866-11x offers TTL level interface and the TIP866-20x provides RS422 interface. Each channel has a 64 byte transmit FIFO and a 64 byte receive FIFO to significantly reduce the overhead required to provide data to and get data from the transmitters and receivers. The FIFO trigger levels are programmable.

The TIP866-10x and -11x support RxD, TxD, RTS, CTS and GND for each of the eight RS232 channels. The TIP866-20x supports RxD+/-, TxD+/- and GND for each of the eight RS422 channels.

The baud rate is individually programmable up to 115.2 kbaud for the TIP866-10x and up to 460.8 kbaud for the TIP866-11x and -20x. The TIP866-10x and -20x use ESD protected transceivers (up to +/-15KV according to IEC 1000-4-2).

The module versions TIP866-xx-ET are designed for the extended operating temperature from -40°C to +85°C.

The Transition Module TIP866-TM-10x provides 8 DB25 connectors mounted in a 6U 8TE front panel. The TIP866-TM-20x provides 8 RJ45 connectors mounted in a 6U 4TE front panel. The TIP866-TM-30x provides 16 4-pin RJ connectors mounted in a 6U 4TE front panel.

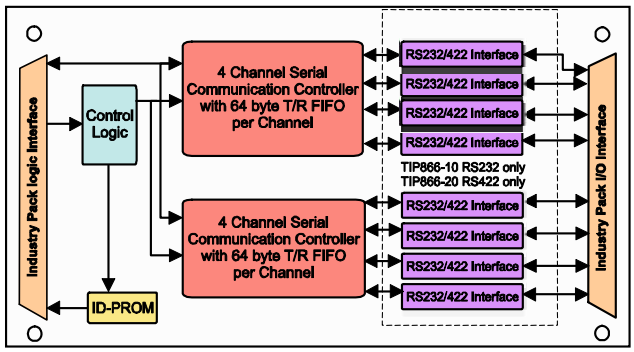


For First-Time-Buyers the Engineering Documentation TIP866-ED is recommended. The Engineering Documentation includes TIP866-DOC, schematics and data sheets.

Serial line driver software TIP866-SW-xx is available for different operating systems.

## Technical Information

- Interface according to IndustryPack specification
- Identification-PROM supports auto-configuration
- Single Size IndustryPack
- 8 channels asynchronous serial interface
- Support of RxD, TxD, RTS, CTS, GND per channel for TIP866-10x and -11x; support of RXD+/-, TXD+/- and GND for TIP866-20x
- Programmable baud rates up to 115.2 KBaud for TIP866-10x and up to 460.8 KBaud for TIP866-11x and -20x
- 64 byte transmit FIFO per channel
- 64 byte receive FIFO per channel
- ESD protected RS232 and RS422 interface (up to +/-15KV according to IEC 1000-4-2)
- Operating temperature:
  0°C to +70°C (TIP866-10x,-11x,-20x)
  -40°C to +85°C (TIP866-xx-ET)




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## Order Information

### RoHS Compliant

| | |
|---|---|
| **TIP866-10R** | 8 Channel Serial RS232 Interface |
| **TIP866-11R** | 8 Channel Serial TTL Interface |
| **TIP866-20R** | 8 Channel Serial RS422 Interface |
| **TIP866-10R-ET** | 8 Channel Serial RS232 Interface for operating temperature -40° to +85°C |
| **TIP866-11R-ET** | 8 Channel Serial TTL Interface for operating temperature -40° to +85°C |
| **TIP866-20R-ET** | 8 Channel Serial RS422 Interface for operating temperature -40° to +85°C |
| **TIP866-TM-10R** | Transition Module for TIP866, provides 8 DB25 Connectors in front panel |
| **TIP866-TM-20R** | Transition Module for TIP866, provides 8 RJ45 connectors in front panel |
| **TIP866-TM-30R** | Transition Module for TIP866, provides 16 4-pin RJ connectors in front panel |
| **TIP866-IO-10R** | Mounting Rail I/O Module with 8 DB9 |

### None RoHS Compliant

| | |
|---|---|
| TIP866-10 | None RoHS compliant version of TIP866-10R |
| TIP866-11 | None RoHS compliant version of TIP866-11R |
| TIP866-20 | None RoHS compliant version of TIP866-20R |
| TIP866-10-ET | None RoHS compliant version of TIP866-10R-ET |
| TIP866-11-ET | None RoHS compliant version of TIP866-11R-ET |
| TIP866-20-ET | None RoHS compliant version of TIP866-20R-ET |
| TIP866-TM-10 | None RoHS compliant version of TIP866-TM-10R |
| TIP866-TM-20 | None RoHS compliant version of TIP866-TM-20R |
| TIP866-TM-30 | None RoHS compliant version of TIP866-TM-30R |
| TIP866-IO-10 | None RoHS compliant version of TIP866-IO-10R |

### Documentation

| | |
|---|---|
| **TIP866-DOC** | User Manual TIP866 |
| **TIP866-TM-10-DOC** | User Manual TIP866-TM-1x |
| **TIP866-TM-20-DOC** | User Manual TIP866-TM-2x |
| **TIP866-TM-30-DOC** | User Manual TIP866-TM-3x |
| **TIP866-IO-10-DOC** | User Manual TIP866-IO-1x |
| **TIP866-ED** | Engineering Documentation, includes TIP866-DOC |

### Software

| | |
|---|---|
| **TIP866-SW-25** | Integrity Software Support |
| **TIP866-SW-42** | VxWorks Software Support (Legacy and VxBus-Enabled Software Support) |
| **TIP866-SW-65** | Windows XP/XPE/2000 Software Support |
| **TIP866-SW-72** | LynxOS Software Support |
| **TIP866-SW-82** | LiNUX Software Support |
| **TIP866-SW-95** | QNX 6 Software Support |

For other operating systems please contact TEWS.

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