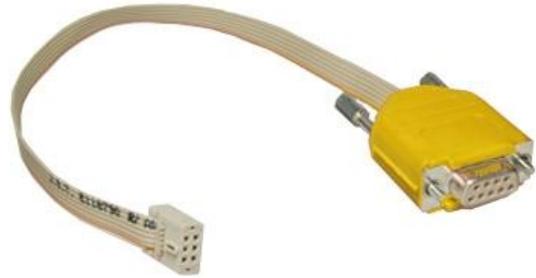


# RS232 Level Shifter

## Datasheet

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- The RS232 level shifter implements the adaption between TTL level of 3.3V...5.0V and EIA-232 standard level of +/-3V...15V of a serial interface (UART).
- On the target side the RS232 level shifter is matched to the common 6-pin communication interface; (found on e.g. deRFtoRCB, Sensor Terminal Board, SAM-ICE adapter).
- The level shifter electronic is powered by the target power supply thereby automatically adapting to the targets TTL level.
- Level conversion is only done for the UART signals TxD and RxD.
- The RxD und TxD signal cross over takes place in the RS232 level shifter. Therefore, a simple RS232 extension cable can be used to connect to the PC (not a null-modem cable).



### Technical Data

|                                     |   |
|-------------------------------------|---|
| <b>Length</b>                       | 300mm   |
| <b>Control and display elements</b> | None  |
| <b>Power supply</b>                 | 3.3V to 5.0V<br>via 6-pin connector from the target   |
| <b>Power consumption</b>            | Typ. 3mA ; max. 45mA;<br>dependent on the data rate and the load capacitance                  |
| <b>Connection to target</b>         | 1x IDC female connector 6-pin   |
| <b>Connection to PC</b>             | 1x DE-9 according to EIA/TIA-574 ( 9-pin D-sub)   |
| <b>Interfaces</b>                   | <u>To target:</u><br>UART; TTL level 3.3V to 5.0V<br><br><u>To PC:</u><br>EIA/TIA-232 (RS232) |

### Technical Data

**Pin configuration**

| Connector X3                        |        |
|-------------------------------------|--------|
| Type: Female connector<br>IDC 6-pin |        |
| Pin                                 | Signal |
| 1                                   | TxD    |
| 2                                   | Vcc    |
| 3                                   | nc     |
| 4                                   | RxD    |
| 5                                   | nc     |
| 6                                   | GND    |

| Connector X1                              |        |
|---|--------|
| Type: D-sub 9-pin socket<br>(DE-9 female) |        |
| Pin                                       | Signal |
| 1   | nc     |
| 2   | RxD    |
| 3   | TxD    |
| 4   | nc     |
| 5   | GND    |
| 6   | nc     |
| 7   | nc     |
| 8   | nc     |
| 9   | nc     |

**Connections**

**Scope of delivery**

RS232 level shifter

**Order No.**

BN-028560

**Suitable for ...**

Sensor Terminal Board (RCB)

Sensor Terminal Board – starter kit 2.4 GHz

deRFtoRCB adapter

deRFnode family

deRFgateway family

BN-026533

BN-024123

BN-028216

BN-031632

BN-031634

BN-031633

**Order  
Information**

Order online: <http://www.dresden-elektronik.de>