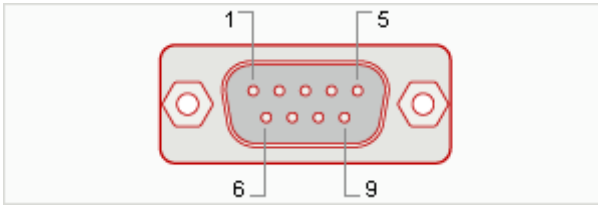
PCAN_USB Pro FD

9-pole 커넥터 (male 핀 할당):



Pin	구성
1	Not connected / +5V optional
2	CAN-L
3	CAN-GND
4	LIN
5	LIN-GND
6	LIN-GND
7	CAN-H
8	Not connected
9	V_{BAT}

Technical Specifications

- Adapter for High-speed USB 2.0 (compatible to USB 1.1 and USB 3.0)
- Transmitting and receiving of CAN FD and LIN messages using 2 D-Sub connections (both with pin assignment for the CAN FD and LIN bus)
- Time stamp resolution 1 µs
- 5-Volt supply at the D-Sub connector can be activated through a solder jumper, e.g. for external bus converter
- Voltage supply via USB
- Extended operating temperature range from -40 to 85 °C (-40 to 185 °F)

CAN operation properties:

- Complies with CAN specifications 2.0 A/B and FD 1.0
- CAN FD bit rates for the data field (64 bytes max.) from 40 kbit/s up to 12 Mbit/s
- CAN bit rates from 40 kbit/s up to 1 Mbit/s
- FPGA implementation of the CAN FD controller
- NXP TJA1044GT CAN transceiver
- Each CAN FD channel is separately opto-decoupled against USB and LIN up to 500 V
- CAN termination can be activated through a solder jumper
- Measurement of bus load including error frames and overload frames
- Induced error generation for incoming and outgoing CAN messages

LIN operation properties:

- Bit rates from 1 kbit/s up to 20 kbit/s
- TJA1021/20 LIN transceiver
- Both LIN channels (common ground) are optodecoupled against USB and CAN FD
- Can be used as a LIN master or slave (1 ms master task resolution)
- Automatic bit rate, frame length, and checksum type recognition
- Autonomous scheduler with support for unconditional, event, and sporadic frames
- Hardware can work through a schedule table (up to 8 schedule tables can be configured with a total of 256 slots)