

CAN: CANFD - TopFifo

› **Description:**

- This example demonstrates transmission and reception on CANFD.

› **Target Device:**

- Traveo-II CYT2B7x devices

› **CPU Board:**

- CYTVII-B-E-1M-176-CPU Rev. C Board
- CYTVII-B-E-BB Rev.A Board

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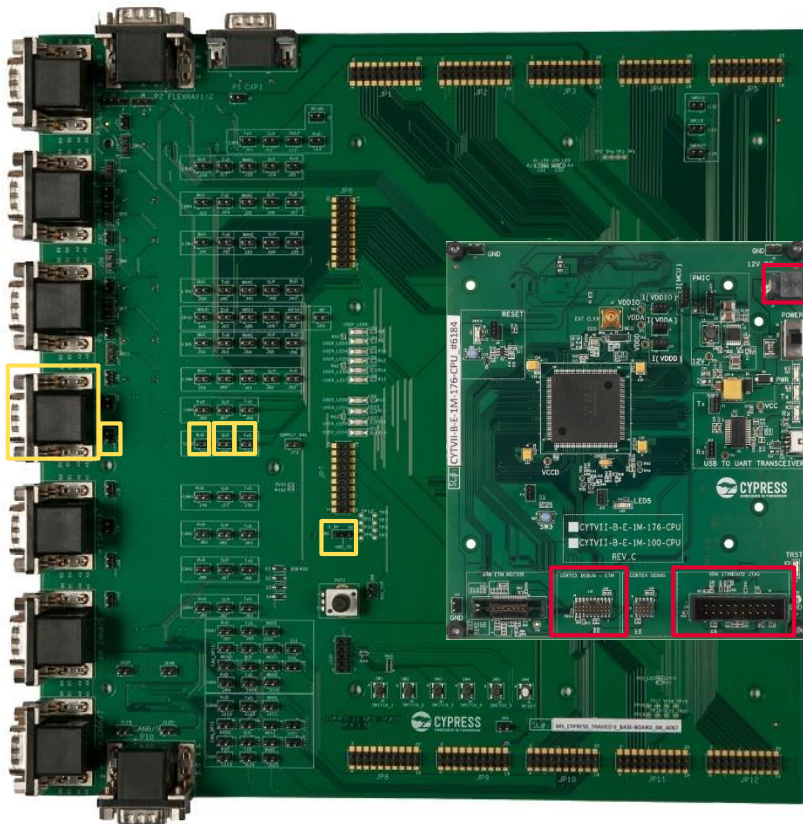
› **Dependency:**

- CYTVII-B-E-1M-176-CPU board should be connected on CYTVII-B-E-BB board.
- Jumper J70 (RX line), J72 (TX line), J71 (if wakeup needed) and J69 (terminal resistor) should be closed on base board.
- CANoe should be installed on the system.

› **Expectation:**

- Connect CAN0 connector (P6 upper one) on the base board and CANoe or other analyzer if available.
- If you have CANoe, launch CANFD_CFG.cfg in UseAsCANFDMODE folder. It is configured simple test for this example.
 - Make sure the Type in CAN IG tab is CAN FD (for standard ID) and Extended CAN FD (for extended ID)
 - Just run and monitor using trace, statistics window.
- CANFD mode (500kHz for nominal bitrate, 1MHz for fast bitrate. Sampling point of both are 75%)
 - 4 message is sent from periodically. (100ms)
 - 2 standard IDs and 2 extended IDs.
 - All ID filters are configured as the classical filter only following IDs are accepted by the MCU:
STD : 0x010, 0x020
EXT : 0x10010, 0x10020
- At the receive call back CAN_RxFifoWithTopCallback in the main.c, received message is ID 300.

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> Legend:

- Red block for power, debug and USB (Mandatory)
- Yellow block for the example specific connections