CAN: CANFD

- **Description**:
  - This example demonstrates transmission and reception on CANFD.

- **Target Device**:
  - Traveo-II CYT2B9x devices

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

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- **Dependency:**
  - Any example could be copied to the main “src” based on the interested core
  - 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 clasical filter only following IDs are accepted by the MCU:
        STD : 0x010, 0x020
        EXT : 0x10010, 0x10020
    - At the receive call back CAN_RxMsgCallback in the main.c, received message is sent back with received ID +1.

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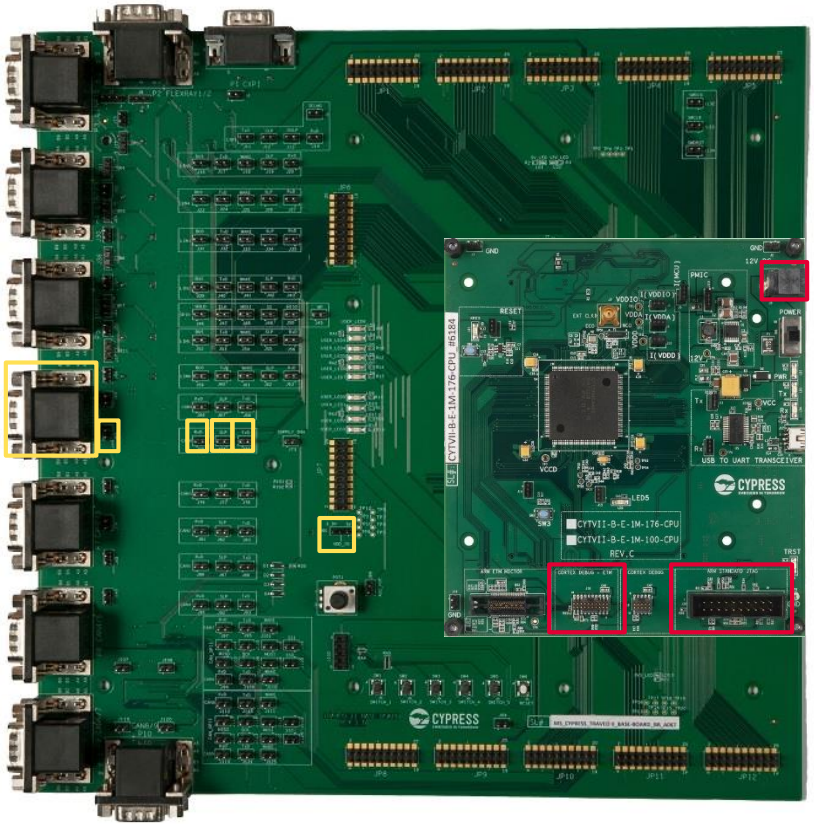

- **Legend**:
  - Red block for power, debug and USB (Mandatory)
  - Yellow block for the example specific connections