

# SYS-PM – OVD/BOD

## › **Description:**

- This example demonstrates the setup of Over-Voltage Detection (OVD) and Brown-Out Detection (BOD) for VDDD, VDDA and VCCD

## › **CAUTION:** Only manipulate the voltages if you know exactly what you are doing and after thoroughly checking the schematics to prevent any damage to the board or MCU

## › **Target Device:**

- Traveo-II CYT2Bx devices

## › **CPU Board:**

- CYTVII-B-E-176-CPU BOARD REV.C (REV\_C)

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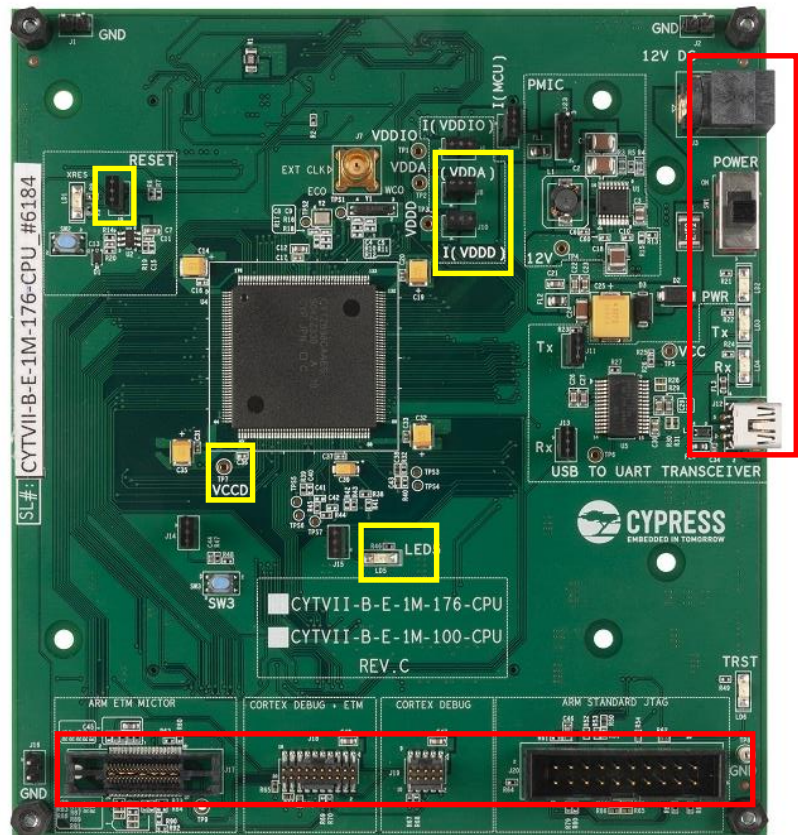
### › **Dependency:**

- Disconnect the debugger after programming
- Serial terminal (115200, 8N1)
- Open J9 (onboard reset IC output)

### › **Expectation:**

- After reset the OVD/BOD related reset cause will be printed through UART
- LED is toggling to indicate that the MCU is still running
- TP7 gives access to VCCD and J8, J10 can be opened to be able to supply VDDA and VDDD for the MCU directly/independently.
- MCU should enter reset state when OVD/BOD event is detected and restarts again when the OVD/BOD condition no longer applies

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## › Legend:

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