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| CEC173x OTP reader | |
| User manual | |
| Rev 0.4 | May 5th 2022 |

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# Introduction

## Purpose

This document provides steps to read OTP data for your CEC173x device using ICD4 debugger.

## Scope

This document explains the procedure using CEC173x Development board as a reference.

## References

## Glossary of Terms and Acronyms

MDB – Microchip Debugger

## Assumptions

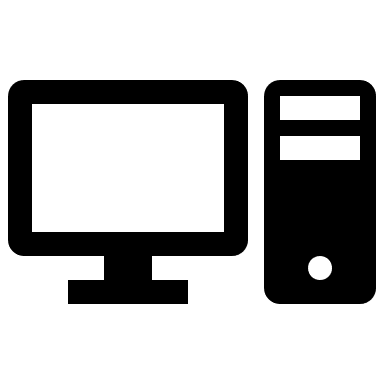
None.

# Tools & HW

Following tools and utilities should be installed and available for accomplishing OTP programming

* CEC173x OTPGEN utility
* MPLabX IDE Version 5.50 or later versions
* ICD4/ PICKIT4 debugger with JTAG cable
* CEC173x Development Board.

6 Pin JTAG header to RJ-45



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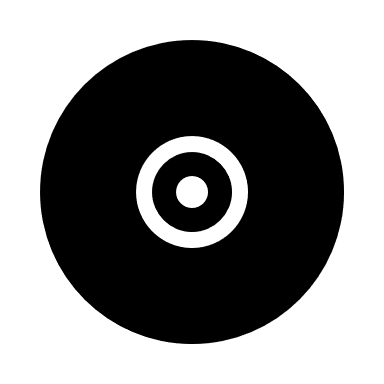
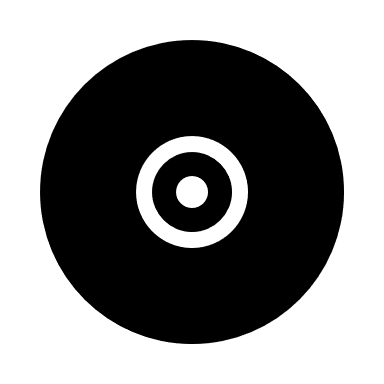
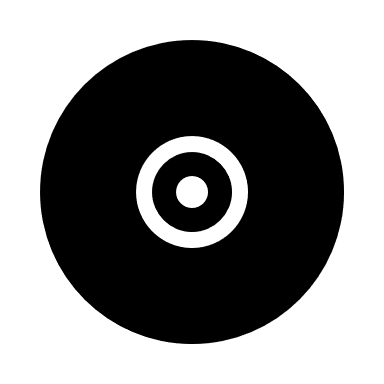
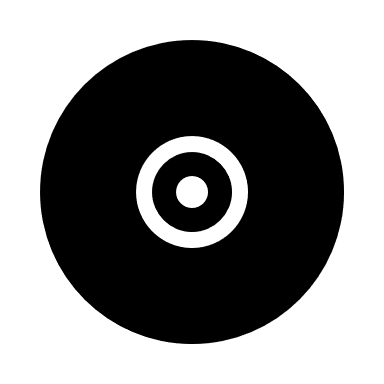
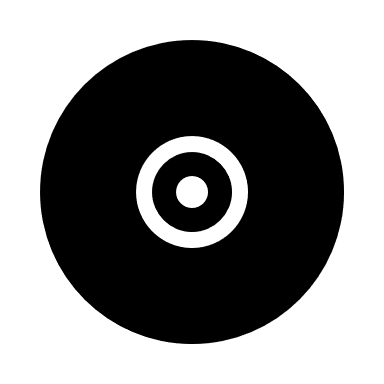
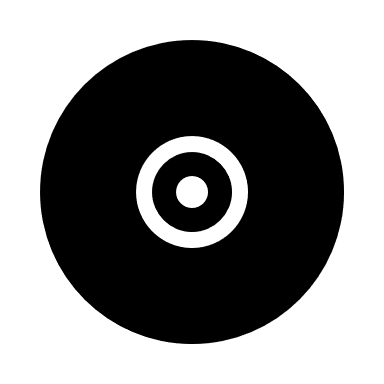
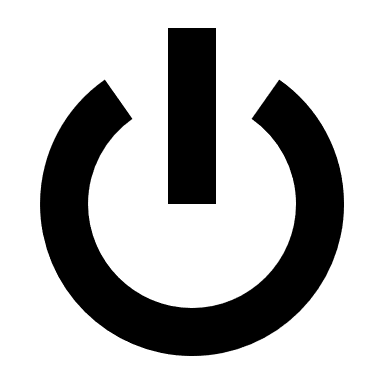
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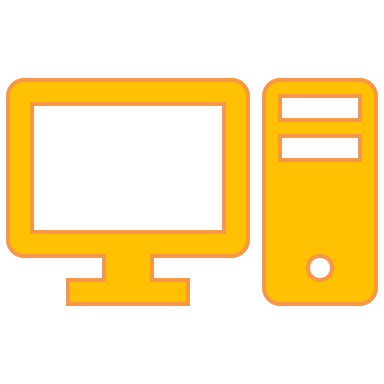
**CEC173x Development Board**

**Power**



*System connection*

*Simple connection using mplabx icd4*



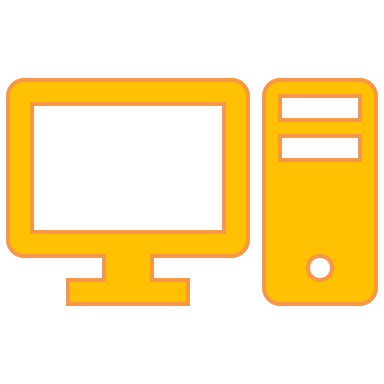
CEC173x EVB



*Simple connection using mplabx pickit4*

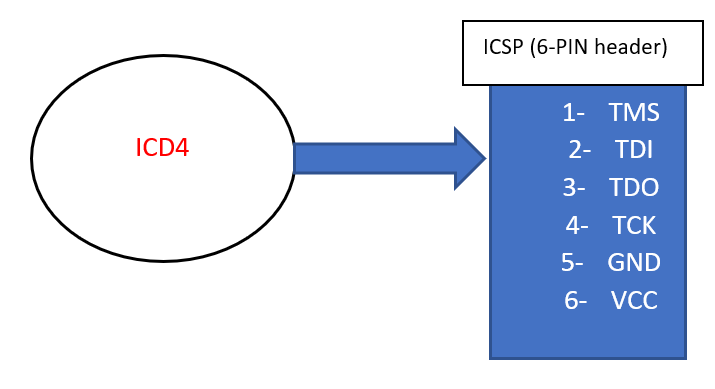
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CEC173x EVB

**Connect the ICSP 6 pin header to J29 in the CEC173x EVB board**



**PICKit4 Pinout:** Diagram

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Connection Type 2 – 2wire Connection

|  |  |
| --- | --- |
| PICKIT4 | CEC173x EVB board of J30 |
| 2 - VDD | 1 - VTref |
| 3 – GND | 4 – GND |
| 5 – PGC | 9 - TCK |
| 8 - TMS | 7 - TMS |

*System connection*

# CEC173x EVB setup

Power + JTAG connection

Map

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# Read back the OTP using mdb script with the help of icd4 or pickit4

1. Use the otp\_reader.exe

Under the below directory:

Graphical user interface, application

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1. Connect the CEC173x device with the hardware ICD4 or pickit4 and UART
2. Run the otp\_reader.exe, it will detect the MPLABX of higher version and connect to any hardware device icd4 or pickit4

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1. It will read the OTP value

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# Revision History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Revision Level | Date | Section | Remarks |
| Prabhakar V | 0.1 | 7th Jan 2021 | All section | Initial draft |
| Prabhakar V | 0.2 | 23rd Feb 2022 | All Section |  |
| Saravanan V | 0.3 | 28rd April 2022 | All Section | Revised few words for market launch |
| Prabhakar V | 0.4 | May 5th 2022 |  | Updated the exe |