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7 Preface INTRODUCTION This

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chapter contains general information that will be useful to know before using the MPLAB® XC8 C Compiler User's Guide. Items discussed in this chapter include:

- Document Layout

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Guide for PIC® MCU

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Guide for AVR® MCU This version of
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2. Compiler Overview The MPLAB XC8 C Compiler is a free-standing, optimizing ISO C99 cross compiler for the C programming language. It supports all 8-bit PIC® and AVR® microcontrollers; however, this document describes the use of the xc8-cc driver and assumes that

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programs are built for Microchip 8-bit AVR devices. See the MPLAB® XC8 C Compiler User's

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INTRODUCTION This chapter contains general information that will be useful to know before using the MPLAB® XC8 C Compiler User's Guide. Items discussed in this chapter include:

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The MPLAB XC8 C Compiler User's
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Chapter 1. Compiler Overview □

Chapter 2. Common C Interface □

Chapter 3. How To's □ Chapter 4. XC8
Command-line Driver □ Chapter 5. C

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Language Features □ Chapter 6.
Macro Assembler □ Chapter 7. Linker □
Chapter 8. Utilities □ Appendix A.
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Engineers INTRODUCTION This
document presents five code

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examples for 8-bit devices and the MPLAB XC8 C compiler. Some knowledge of microcontrollers and the C programming language is necessary. 1. Turn LEDs On or Off 2. Flash LEDs Using `_delay()` Function 3.

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~~Embedded Engineers~~

MPLAB XC8 C Compiler 2.10 is available as a free download on our software library. The following versions: 2.1, 1.4 and 1.3 are the most frequently downloaded ones by the program users. The size of the latest installation package available is 84

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MB. The software lies within
Development Tools, more precisely
IDE.

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Microchip MPLAB® XC8 C Compiler
(SW006021-2) is designed as a free-

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standing, ANSI C compiler. The SW006021-2 MPLAB XC8 C Compiler generates highly optimized code for the 8-bit PIC® microcontrollers (PIC10, PIC12, PIC16, and PIC18 devices) as well as the PIC14000 Mixed Signal Controller. The SW006021-2 MPLAB® XC8 C

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Compiler integrates with the MPLAB X IDE to provide a comprehensive graphical front end for Microchip 8-bit devices. [View Product Detail](#)

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Library Functions

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Summary. The MPLAB® XC8 C Compiler is a full-featured, highly-optimized ANSI C compiler for all 8-bit AVR® and PIC® Microcontroller

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families. This compiler integrates into Microchip's MPLAB X IDE, is compatible with all Microchip debuggers and emulators, and runs on Windows®, Linux® and macOS®. The MPLAB XC8 PRO Compiler Dongle License unlocks the full potential and performance of all possible

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