

Release Notes for MPLAB® Code Configurator PIC10/PIC12/PIC16/PIC18 library v1.45

1 What is MPLAB Code Configurator PIC10/PIC12/PIC16/PIC18 library

The PIC10-PIC12/PIC16/PIC18 library enables to use newer devices and its modules 8bit MCUs.

2 System Requirements

- MPLAB® X IDE 3.65 or later
- XC8 compiler v1.42 or later
- MCC Version 3.35

3 Installing MPLAB® Code Configurator PIC10/PIC12/PIC16/PIC18_v1.45

Basic steps for installing MPLAB® Code Configurator needs to be installed as below.

To install the MPLAB® Code Configurator Plugin:

1. In the MPLAB® X IDE, select **Plugins** from the Tools menu
2. Select the **Available Plugins** tab
3. Check the box for the MPLAB® Code Configurator, and click on **Install**

To install the PIC10-PIC12-PIC16-PIC18_v1.45

1. Download **PIC10-PIC12-PIC16-PIC-18_v1.45.jar** from microchip website.
2. In the MPLAB® X IDE, select **Options** from the **Tools** menu
3. Select **Plugins** tab
4. Click on **Add Library**
5. Add **PIC10-PIC12-PIC16-PIC18_v1.45.jar**
6. Restart MPLAB® X IDE

To load different peripheral library version

1. Open MPLAB® Code Configurator v3 from the Tools menu
2. In Versions tab under PIC10/PIC12/PIC16/PIC18 MCUs will find the multiple library version (loaded version is indicated by the green dot)
3. Right Click on the required version of the library and select Mark for load
4. Click on Load Selected Libraries button to load the library

4 What's New

- Graphical User Interface for LCD Module
- Added new 8bit devices (Look at section 8 and section 10 for details)

5 Repairs and Enhancements

#	ID	Description	Affected Device(s)
1.	MCCV3XX-5353	CVREF: cvref output text box is blinking in red.	18FxxK20
2.	MCCV3XX-5104	CMxCON0 register bit 2 must be set to 1	16F176x
3.	MCCV3XX-5076	MCC support for PIC10F32x device	8 bit devices
4.	MCCV3XX-5302	UART: RX/CTS/DSR pins missing from the pin manager UI.	18FxxK42
5.	MCCV3XX-3732	PIC16F18855 MSSP1 PPS settings	8 bit devices
6.	MCCV3XX-4630	IOC not available in all pins of PORTG	18FxxK40
7.	MCCV3XX-4832	bug report CIN1- input selection	8 bit devices
8.	MCCV3XX-2624	Incorrect MCLR pin control in Pin Manager when LVP is selected	8 bit devices
9.	MCCV3XX-5959	MSSP exception after save and reload	PIC16LF1559
10.	MCCV3XX-5958	EUSART exception after save and reload	PIC16LF1559
11.	MCCV3XX-5947	CMP: pins are not disappearing after changing the CMP mode	8 bit devices
12.	MCCV3XX-5933	System: Notification is not disappearing even after the PLL frequency in the correct range	8 bit devices
13.	MCCV3XX-5932	DSM:- MDMIN pin is missing in pin grid.	PIC16LF18346
14.	MCCV3XX-5838	System Module issue	PIC16F15356
15.	MCCV3XX-5787	Build error in interrupt manager when config bit MVECEN=ON	PIC18FxxK42
16.	MCCV3XX-5528	CLC , error message: Cannot Deselect "CLCIN0" pin as some of the CLC input muxes are configured to it	PIC16F1508
17.	MCCV3XX-5381	Request for oscillator setting on MCC	8 bit devices
18.	MCCV3XX-5104	CMxCON0 register bit 2 must be set to 1	PIC16F176x
19.	MCCV3XX-5076 , MCCV3XX-5075 , MCCV3XX-4939	PIC10F32x support in MCC	PIC10F32x
20.	MCCV3XX-4927	MCC BUG : : MCC 3.25 : MPLAB X 3.45 : XC8 1.37 : Osc Config error	PIC16F18344

#	ID	Description	Affected Device(s)
21.	MCCV3XX-4845	LCD: when a row is removed, the recursivity is not working for the new available pairs.	PIC16F19xx
22.	MCCV3XX-2624	Incorrect MCLR pin control in Pin Manager when LVP is selected	8 bit devices
23.	MCCV3XX-1820	Pin Manager must support pin constraints controlled by other settings	8 bit devices

6 Known Issues

#	ID	Description	Device(s)
1.	MCCV3XX-3730	Weak Pull-ups master enable bit not enabled	18FxxK80
2.	MCCV3XX-4177 , MCCV3XX-4290	No support for Interrupt on Change (18F6x/8xK22, 18F6x/8xK90, 18FxxJ6x)	18FxxJ6x, 18FxxK22, 18FxxK90
3.	MCCV3XX-4198	The IOC driver does not function on the 16F18855	8 bit devices
4.	MCCV3XX-2365	Pin T1CKI cannot be enabled or disabled from the Pin Manager Grid view	8 bit devices
5.	MCCV3XX-4075	EXT_INT:- Combo box is required for edge select of each external interrupt in easy setup.	18FxxK22
6.	MCCV3XX-4069	Resetting SPEN bit is not clearing overrun error status bit.	18FxxK80
7.	MCCV3XX-4076	[PinManager] Add support to create a High-Z state for an I/O pin	8 bit devices
8.	MCCV3XX-3875	Pin manager - ANSEL bits are not setting for analog pins	8 bit devices
9.	MCCV3XX-4913	EXT_INT: all methods disappear if tweaking the interrupts on/off from the Interrupt Manager	8 bit devices
10.	MCCV3XX-5420	MSSP : Generated code not compiling and interrupt consistency issue on MCC reload	8 bit devices
11.	MCCV3XX-5740	MCC 3.26.2 Generates Wrong Code for SPI Slave	PIC18FxxK42
12.	MCCV3XX-5738	Serious bug in the MCC Usart driver	8 bit devices
13.	MCCV3XX-5422	18FxxK42 generated I2C driver	18FxxK42
14.	MCCV3XX-5068	Add Q10 support in crc.c and crc.h template files.	18F2xQ10
15.	MCCV3XX-4105	Unchecking an interrupt in the INT Module should only disable the interrupt enable bit	8 bit devices
16.	MCCV3XX-3295	TMR 1 period calculations	8 bit devices

7 Frequently Asked Questions

For frequently asked questions, please refer to the FAQ post on the [MCC Forum](http://www.microchip.com/forums/f293.aspx) (<http://www.microchip.com/forums/f293.aspx>)

8 Supported Families

The MCC PIC10-PIC12-PIC16-PIC18 Library 1.45 supports the following families. The families listed in bold are new for this release.

The full list of devices is in Section Appendix: Supported Devices

- PIC1xF75x
- **PIC10(L)F32x**
- PIC16(L)F145x
- PIC1x(L)F150x
- PIC16(L)F151x
- PIC16(L)F152x
- PIC16(L)F153xx
- PIC1xLF155x
- PIC16(L)F156x
- PIC1x(L)F157x
- PIC16(L)F161x
- PIC16F170x
- PIC16(L)F171x
- PIC16F176x
- PIC16(L)F177x
- PIC16(L)F178x
- PIC16(L)F182x
- PIC16(L)F184x
- PIC16(L)F183xx
- PIC16(L)F188xx
- PIC16LF190x
- PIC16(L)F193x
- **PIC16(L)F191xx**
- PIC18F1xK22
- PIC18F2x/4xK20
- PIC18F2x/4xK22
- PIC18F2x/4xK50
- PIC18(L)F6x/8xK22
- PIC18(L)xxK40
- PIC18(L)FxxK80
- PIC18(L)FxxK90
- PIC18FxxJ6x
- **PIC18F2xK42**
- **PIC18F2xQ10**

9 Customer Support

9.1 The Microchip Web Site

Microchip provides online support via our web site at <http://www.microchip.com>. This web site is used as a means to make files and information easily available to customers. Accessible by using your favorite Internet browser, the web site contains the following information:

- Product Support – Data sheets and errata, application notes and sample programs, design resources, user's guides and hardware support documents, latest software releases and archived software
- General Technical Support – Frequently Asked Questions (FAQs), technical support requests, online discussion groups/forums (<http://forum.microchip.com>), Microchip consultant program member listing

- Business of Microchip – Product selector and ordering guides, latest Microchip press releases, listing of seminars and events, listings of Microchip sales offices, distributors and factory representatives

9.2 Additional Support

Users of Microchip products can receive assistance through several channels:

- Distributor or Representative
- Local Sales Office
- Field Application Engineering (FAE)
- Technical Support

Customers should contact their distributor, representative or field application engineer (FAE) for support. Local sales offices are also available to help customers. A listing of sales offices and locations is available on our web site.

Technical support is available through the web site at: <http://support.microchip.com>

10 Appendix: Supported Devices

The MCC pc10-pic12-pic16-pic18_v1.35 supports the following **341 Devices**. Devices shown in bold are new to this release (**28 Devices**)

- | | | |
|---------------------|--------------|--------------|
| • PIC10F320 | • PIC16F1454 | • PIC16F1614 |
| • PIC10F322 | • PIC16F1455 | • PIC16F1615 |
| • PIC12F752 | • PIC16F1459 | • PIC16F1618 |
| • PIC12F1501 | • PIC16F1503 | • PIC16F1619 |
| • PIC12F1571 | • PIC16F1507 | • PIC16F1703 |
| • PIC12F1572 | • PIC16F1508 | • PIC16F1704 |
| • PIC12F1612 | • PIC16F1509 | • PIC16F1705 |
| • PIC12F1822 | • PIC16F1512 | • PIC16F1707 |
| • PIC12F1840 | • PIC16F1513 | • PIC16F1708 |
| • PIC10LF320 | • PIC16F1516 | • PIC16F1709 |
| • PIC10LF322 | • PIC16F1517 | • PIC16F1713 |
| • PIC12HV752 | • PIC16F1518 | • PIC16F1716 |
| • PIC12LF1501 | • PIC16F1519 | • PIC16F1717 |
| • PIC12LF1552 | • PIC16F1526 | • PIC16F1718 |
| • PIC12LF1571 | • PIC16F1527 | • PIC16F1719 |
| • PIC12LF1572 | • PIC16F1574 | • PIC16F1764 |
| • PIC12LF1612 | • PIC16F1575 | • PIC16F1765 |
| • PIC12LF1822 | • PIC16F1578 | • PIC16F1768 |
| • PIC12LF1840 | • PIC16F1579 | • PIC16F1769 |
| • PIC16F753 | • PIC16F1613 | • PIC16F1773 |

- PIC16F1776
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- PIC16F1782
- PIC16F1783
- PIC16F1784
- PIC16F1786
- PIC16F1787
- PIC16F1788
- PIC16F1789
- PIC16F1823
- PIC16F1824
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- PIC16F1826
- PIC16F1827
- PIC16F1828
- PIC16F1829
- PIC16F1847
- PIC16F1933
- PIC16F1934
- PIC16F1936
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- PIC16F1938
- PIC16F1939
- PIC16F1946
- PIC16F1947
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- PIC16F15325
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- PIC16F15376
- PIC16F15385
- PIC16F15386
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- PIC16F18346
- PIC16F18854
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- PIC16F18856
- PIC16F18857
- PIC16F18875
- PIC16F18876
- PIC16F18877
- **PIC16F19155**
- **PIC16F19156**
- **PIC16F19175**
- **PIC16F19176**
- **PIC16F19185**
- **PIC16F19186**
- PIC16F19195
- PIC16F19196
- PIC16F19197
- PIC16HV753
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- **PIC16LF19186**
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- **PIC18F55K42**
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