PIC32CX1012BZ25048
Reference Design Package

1. Introduction

Microchip's Reference Design Package contains the design collaterals (Schematics, Bill of Materials, PCB design source files and Gerber) of the module and evaluation kit for a given Microchip device. Also, it includes application notes, user guides, test reports and related software tools for getting started with the design using the PIC32CX1012BZ25048.

Microchip's Reference Design Package intends to accelerate the end-product design cycle and reduce the time to market with a validated reference design, test tool and production guidelines.

The Reference Design Package is ideally intended to be used as is in the end-product design. Users can expect to achieve the same performance and functionality only if this reference design is used as-is. If an end-product design requirement intends to customize the provided reference design, then it is expected that the user must have the skillset and infrastructure to validate the functional and RF performance of the device on their own.

Below is the list of items the user can refer to during the different stages of their end-product development,

End-Product Stage	Item to refer
Design Phase	o PIC32CX1012BZ25048 Reference Design Files o WBZ451 Curiosity Board Design Files o Hardware Design Guidelines o PCB Antenna Test Report o Wireless Hardware Design Checklist o Submit Wireless Design Check Service ticket
Validation Phase	o Calibration User Guide o Validation Tool (MCHPRT3) and its user guide
Certification Phase	o Certification Tool (MCHPRT3) and its user guide
Production Phase	o Production Test Tool (MCHPRT3) and its user guide o Calibration Guide o Production Guide (or) o Mass Production Third Party Support - Litepoint

2. Mass Production Support:

a. Litepoint IQfact+:

For rapid volume manufacturing with a minimum engineering effort, Litepoint provides IQfact+ a turnkey, chipset-specific wireless test solution.

The support for the PIC32CX-BZ2 device family has been added to the IQfact+ and is ready for the mass production support.

Reachout to https://www.litepoint.com/about/contact-us/ for more details.

Note: User can also develop their own production test script using Microchip Radio Testing Tool (MCHPRT3).

3. Document List

S. No	Product Stage	Classification	Item Description	Revision
1	Design Phase	Design Document	PIC32CX1012BZ25048 Reference Design Files - Altium CAD Source File - BOM - Gerber File - Schematic (PDF)	1.0
2	Design Phase	Design Document	WBZ451 curiosity board design files (weblink) - Altium CAD Source File - BOM - Gerber File - Schematic (PDF)	7.0
3	Design Phase	Checklist	Wireless Hardware Design Checklist (weblink)	B
			Wireless Design Check Service (weblink)	-
4	Design Phase	User's Guide	PIC32CX-BZ2 Hardware Design Guideline User's Guide	A
5	Design Phase	Test Report	PCB Antenna Test Report u.FL series catalog (weblink)	1.0 -
6	Validation & Production Phase	Application Note	PIC32CX-BZ2 Calibration User's Guide	A
7	Validation, Certification & Production Phase	Tools	Microchip Radio Testing Tool (weblink)	-
8	Production Phase	User Guide	PIC32CX-BZ2 Production User's Guide	A
		Information	Litepoint IQfact+ Third Party - Mass Production Support	-
9	General	Information	Microchip Technical Support Portal (weblink)	-
			Microchip Contact us (weblink)	-
			Microchip Technical Support Portal (weblink)	-

4. Revision History

Revision	Description	Revision Date
1.0	Initial Public Release	19th October 2022