

# PIC32 Bluetooth® Daughter Board - BM64 Information Sheet

The PIC32 Bluetooth Daughter Board - BM64 (AC320032-3) is based on the Microchip BM64 Bluetooth Stereo Audio Module. This information sheet provides an overview and detailed schematics of the PIC32 Bluetooth Daughter Board.

This daughter board is designed specifically to be used with the PIC32 Bluetooth Audio Development Kit (DV320032); however, it can also be used with other Microchip development hardware.

Visit <http://www.microchip.com> for more information.

## Features

The PIC32 Bluetooth Daughter Board - BM64 features the Microchip BM64 Bluetooth Stereo Audio Module, which supports 2.4 GHz Bluetooth® version 4.2, with the BDR/EDR/BLE specification. The BM64 has built-in user programmable DSP and EQ, which is accessible through an easy to configure User Interface (UI) tool, a Windows® configuration utility, or directly by MCU.

The PIC32 Bluetooth Daughter Board - BM64 is suitable for adding Bluetooth and Audio input and output capabilities to the PIC32 Bluetooth Starter Kit (DM320018) and the PIC32 Bluetooth Audio Development Kit (DV320032).

The PIC32 Bluetooth Daughter Board - BM64 features include:

- Microchip BM64 Stereo Audio Module
- Fully-certified, embedded 2.4 GHz Bluetooth V4.2 module
- Bluetooth SIG-qualified, Bluetooth BDR/EDR/BLE specification
- 3.5 mm Inputs:
  - Line in
  - External Mic in
- Supports both I<sup>2</sup>S format and analog audio output
- On-board Bluetooth Stack
- Integrated DSP with code for echo cancellation and other features
- Suitable for audio and voice, and utilized in Bluetooth applications
- X32 connection interface.

## Additional Information

For more information on drivers and examples, please visit:

- [www.microchip.com/pic32btsuites](http://www.microchip.com/pic32btsuites)
- [www.microchip.com/harmony](http://www.microchip.com/harmony)

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Cleveland - 216-447-0464  
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### Europe

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Italy - Milan - 39-0331-742611  
Netherlands - Drunen - 31-416-690399  
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China - Chengdu - 86-28-8665-5511  
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Japan - Tokyo - 81-3-6880-3770  
Korea - Daegu - 82-53-744-4301  
Korea - Seoul - 82-2-554-7200  
Malaysia - Kuala Lumpur - 60-3-6201-9857  
Malaysia - Penang - 60-4-227-8870  
Philippines - Manila - 63-2-634-9065  
Singapore - 65-6334-8870  
Taiwan - Hsin Chu - 886-3-5778-366  
Taiwan - Kaohsiung - 886-7-213-7840  
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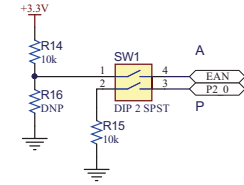
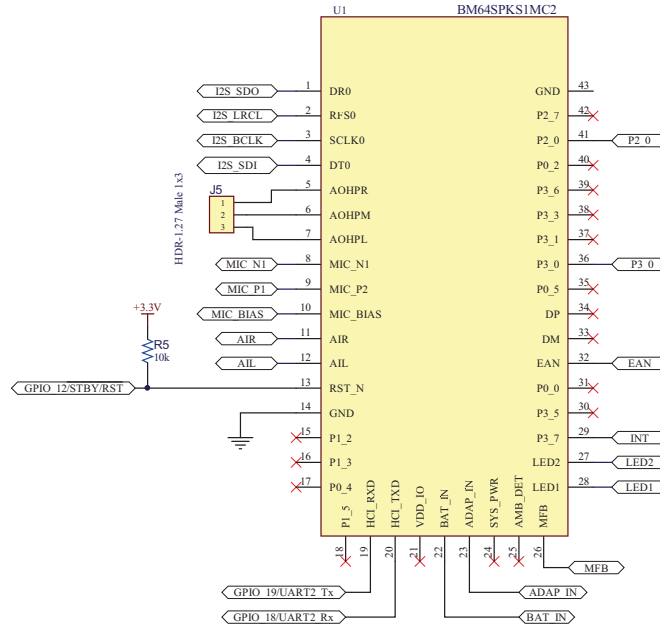
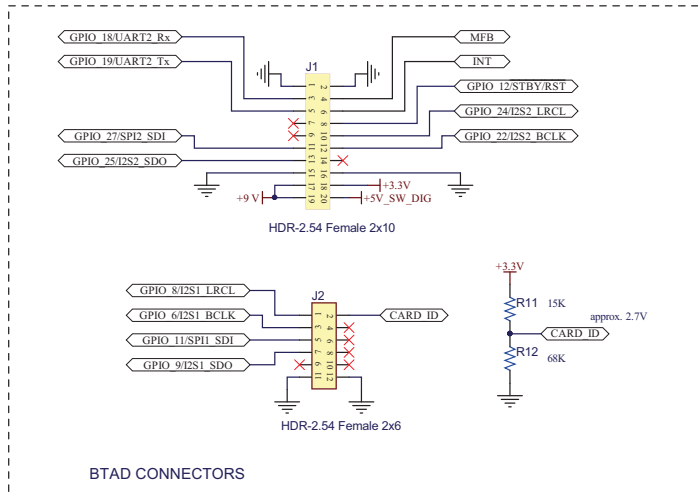
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# PIC32 Bluetooth Daughter Board - BM64 Schematics



SW1 SETTINGS		
	EAN	P2_0
ROM APP	ON	OFF
ROM TEST	ON	ON
Flash APP	OFF	OFF
Flash TEST	OFF	ON

