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[Support Developer Kit: CY3654 + CY3654P02](#)

**DEVELOPER KIT: CY3654 + CY3654P02**

**Families Supported:**  
[USB LowSpeed Peripherals](#)

**Devices Supported:**  
 CY7C63413PC  
 CY7C63413PVC  
 CY7C63513PVC  
 CY7C63613SC

**Product Description:**

The CY3654 + CY3654P02 Base Board & Personality Board is a development environment in support of a variety of applications keyboards and other low speed devices requiring more than one personality board. The CY3654 + CY3654P02 is designed for use with Cypress's CY7C634XX, CY7C635XX, and CY7C636XX M8 based parts.

**CY3654 Base Board**  
 The CY3654 is the common platform board for a variety of our products. To emulate a specific USB device within a family, the appropriate personality board needs to be purchased. Each USB family will have a unique personality board. The platform (CY3654) will only work when supplemented by one of the family personality boards.

The CY3654 has been designed using a high level FPGA, so that Netlist updates can be downloaded by the user. The development environment consists of a USB development board, USB monitor/debugger, and example application source code, cables, and documentation.

Cypress offers high level language programming support for all the series products with the CY366xR100 compiler. This optimizing compiler allows developers to write code in a high level language and convert it to executable code. The CY366xR100 tool offers a built in macro assembler, an integrated development environment and an editor. This optimizing development tool provides many improvements over the traditional assembly programming language including a reduction in development time of firmware code for complex embedded systems enabling the developer to generate very efficient, compact code and providing for easy firmware maintenance.

**Personality Boards:**  
 Cypress offers a variety of Personality Boards that accompany the CY3654 Base Board for use in specific applications. The following are current offerings:

**CY3654P02**-- Personality Board for CY7C634XX, CY7C635XX, and CY7C636XX. (apps: USB keyboards and other low speed devices requiring more than one personality board)

**CY3654P03**-- Personality Board for CY7C64X13 (full speed), CY7C65X13, and CY7C66X13 (full speed) (apps: full speed peripherals, hubs, and hub plus integrated peripheral applications)

**CY3654P05**-- Personality Board for CY7C632XXA, and CY7C637XX. (apps: mice or other low speed USB peripherals)

**Note:** A Complete Development Kit consists of the Platform Board and Personality Board. Other Personality Boards can be used with the CY3654 Platform Board. Please specify both the platform board, CY3654, and Personality board: CY3654P02, when ordering this particular kit.

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Documentation		
Title	PDF File	Last Modified
<a href="#">CYDB Reference Guide</a>	10577KB	Jan. 21, 2002
<a href="#">CYDB Users Guide</a>	19169KB	Jan. 21, 2002
<a href="#">CYASM Assembler User's Guide</a>	265KB	Jan. 21, 2002

Software		
Title	Zip Download	Last Modified
<a href="#">CY Debugger for CY3654 V1.4.3</a>	2170KB	Jan. 21, 2002
<a href="#">CY3654 Code Examples</a>	1360KB	Jan. 21, 2002
<a href="#">CYASM Assembler Software V1.96</a>	277KB	Jan. 21, 2002
<a href="#">Evaluation Version of Bytecraft C Compiler</a>	1848KB	Jan. 21, 2002

**Hardware**  
 CY3654 Development Kit includes a CY3654 Platform board, a 232 Cable, and a Power Supply. Personality Kits include a CY3654Px00 Personality Board, a CY3654Dx00 Applications Board Target IC Adapters, a target Flex Cable, and application Cables

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