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## DEVELOPER KIT: CY3654 + CY3654-PO3

### Families Supported:

#### [USB Hubs](#)

Devices Supported:

**CY7C65113-SC****CY7C66013-PVC****CY7C66113-PVC**

### Product Description:

The **CY3654 + CY3654-PO3** Base Board & Personality Board is a development environment in support of a variety of applications such as full-speed peripherals, hubs, and hub plus integrated peripheral applications. The **CY3654 + CY3654-PO3** is designed for use with Cypress's CY7C64x13 (full-speed), CY7C65x13 and CY7C66x13 (hubs) M8 based parts.

### CY3654 Base-Board

The CY3654 is the common platform board for a variety of our M8 Series products. To emulate a specific USB device within a family, the appropriate personality board needs to be purchased (CY3654-Pxx). Each USB family will have a unique personality board. The platform board (CY3654) will only work when supplemented by one of the family specific personality boards.

The CY3654 has been designed using RAM-based FPGA s, so that Netlist updates can be downloaded by the user. The development kits for Cypress low-speed USB microcontrollers use real-time hardware emulation of the actual devices to assist in firmware development. The kits consist of a USB development board, USB monitor/debugger, assembler, example application source code, cables, and documentation.

Cypress offers high-level language programming support for all the M8 series products with the CY366xR100 C-Compiler. This optimizing compiler allows developers to write code in a higher-level language and convert it to executable code. The CY366xR100 tool offers a linker, a built-in macro cross-assembler, an integrated development environment, and an editor. This optimizing development tool provides many benefits over the traditional assembly programming language including minimizing 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 follow is a list of current offerings:

**CY3654-P02** -- Personality Board for CY7C634XX, CY7C635XX, and CY7C636XX. (**apps:** *USB keyboards and other low speed devices requiring more I/O*)

**CY3654-P03** -- Personality Board for CY7C64X13 (full-speed), CY7C65X13 and CY7C66X13 (hubs). (**apps:** *full speed peripherals, hubs, and hub plus integrated peripheral applications*)

**CY3654-P05** -- Personality Board for CY7C632XXA, and CY7C637XX. (**apps:** *mice or other low speed USB peripherals*)

**Note:** A Complete Development Kit consists of the Platform Board plus a Personality Board. Other Personality Boards can be used with the same CY3654 Platform Board. **Please specify both the base board: CY3654, and Personality board: CY3654-PO3, when ordering this particular kit.**

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## Documentation

Title	PDF File	Last Modified
<a href="#">CYDB Reference Guide</a>	 10577KB	Nov. 16, 2001
<a href="#">CYDB Users Guide</a>	 19169KB	Nov. 16, 2001
<a href="#">CYASM Assembler User's Guide</a>	 265KB	Nov. 16, 2001

## Software

Title	Zip Download	Last Modified
<a href="#">CY Debugger for CY3654 V1.4.3</a>	 2170KB	Nov. 16, 2001
<a href="#">CY3654 Code Examples</a>	 1360KB	Nov. 16, 2001
<a href="#">CYASM Assembler Software V1.96</a>	 277KB	Nov. 16, 2001
<a href="#">Evaluation Version of Bytecraft C-Compiler</a>	 1848KB	Nov. 16, 2001

## Hardware

CY3654 Development Kit includes a CY3654 Platform board, an RS-232 Cable, and a Power Supply. Personality Kits include a CY3654Px00 Personality Board, a CY3654Dx00 Applications Board, Target  $\mu$ C Adapters, a target Flex Cable, and application Cables.

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