



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



TetraHub™ USB 2.0 4-Port Hub Reference Design – CY4602

USB 2.0 4-Port Hub

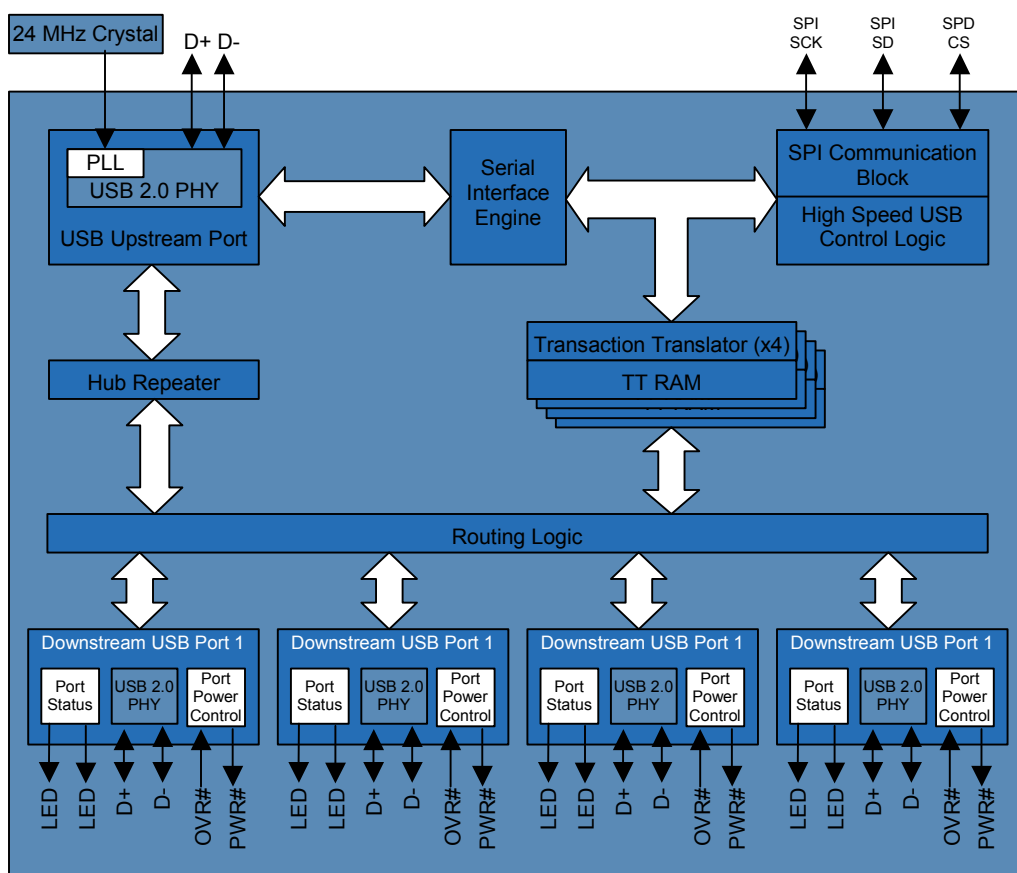
The TetraHub™ is the highest performance USB 2.0 hub solution available. Cypress offers a complete reference design for developing a fixed function 4-port USB 2.0 Hub that is production ready and USB 2.0 compliant.

This single chip design is based on the CY7C65640-LFC, offering a space saving and cost effective package. Because it is USB 2.0 compliant it is fully backward compatible with USB 1.1 systems. It provides for up to four downstream ports, and supports High Speed, Full Speed and Low Speed traffic. No firmware development is required for this design, thereby reducing design risk and time-to-market.

Our Reference Design Kits include a fully functional demonstration board as well as all of the design materials you will need to expedite the development of your custom product. Cypress provides faster time-to-market and the lowest overall system cost with our TetraHub Reference Design.

Highlights

- **USB 2.0 Compliant**
- **480/12/1.5-Mbps operation**
- **4 transaction translators ('Tetra' Architecture)**
- **56-lead QFN package**
- **Integrated components**
 - 1.5 kΩ pull-up resistor on D+
 - 15 kΩ pull-down resistors on downstream ports
- **Individual or ganged port power switching and over current detection**
- **Integrated phase-locked loop**
- **Dedicated LED ports**



Driving the Communications Revolution™

www.cypress.com



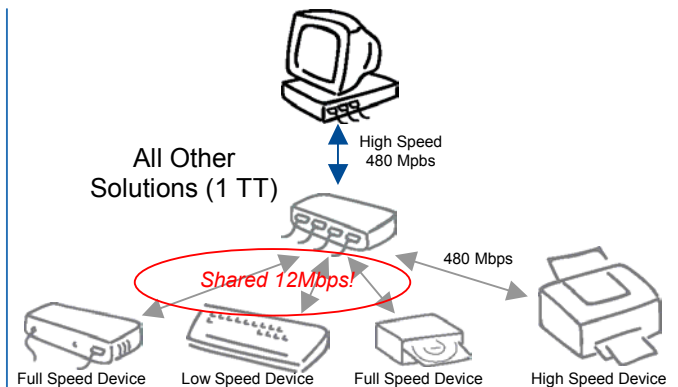
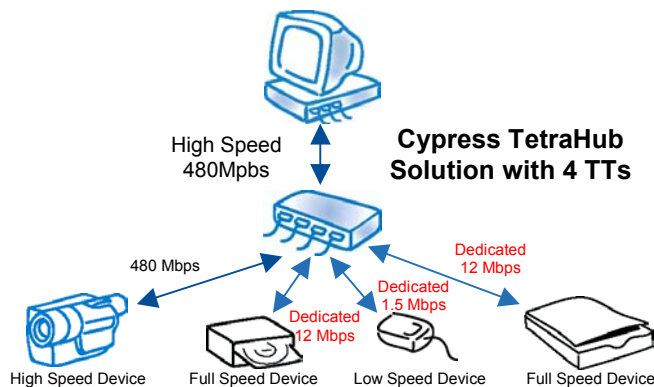
Driving the Communications Revolutions™

Cypress Semiconductor Corp.
3901 North First Street
San Jose, CA 95134
408.943.2600 408.943.6848 fax
800.858.1810 (toll-free in U.S.)
Press "4" to reach your local sales rep

TetraHub™ Reference Design

Transaction Translators

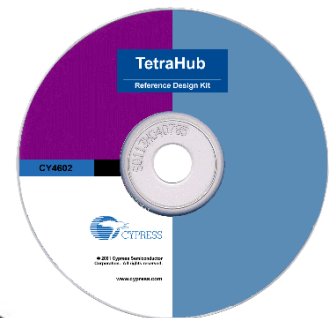
When compared to a USB 1.1 hub, a USB 2.0 hub functions more like a host controller, using "transaction translators" to convert Low and Full Speed traffic to High Speed, instead of just passing it through. With a single transaction translator, bandwidth must be shared among downstream Low and Full Speed devices. Cypress's unique design, integrating four transaction translators, allows us to provide the highest performing hub chip on the market, supporting the full bandwidth for every downstream Low and Full Speed device.



TetraHub™ Reference Design Kit Contents

The TetraHub™ Reference Design Kit includes:

- CY7C65640 based demonstration unit
- 5VDC, 2.5A wall power supply
- USB cable
- Datasheet and Design Notes
- Hardware files
 - Schematics
 - Bill of Materials
 - Gerber and Orcad Source Files



Product ordering information

For assistance in ordering, contact your local Cypress Sales Representative. Call toll-free in the U.S. (800)-858-1810 or visit our web site at www.cypress.com. Online resources for locating your sales representative, as well as on-line ordering are available under the link [How to Buy Cypress Products](#).

Reference Design Kit Number	Based on Cypress Part...
CY4602	CY7C65640-LFC