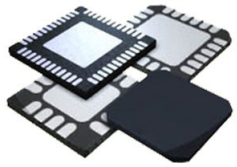
USB2641-HZH-02

High Speed Flash Media Controller and HUB Combo USB 2.0 3.3V Tray 48-Pin VQFN EP

Manufacturer:	Microchip Technology, Inc
Package/Case:	QFN
Product Type:	Interface ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

Microchip's USB264x/2660 family combines an ultra-fast interface between a USB host and today's most popular Flash media cards with a versatile, cost-effective and power-efficient 2-port Hi-Speed USB 2.0 hub controller. USB264x/2660 is designed for applications that demand low power, small footprint and reduced BOM without compromising performance or features.

Offering a high level of USB 2.0 compliance and interoperability, the USB264x/2660 family allows system designers the flexibility of independent access to a wide selection of Flash media readers and also provides additional downstream USB access ports.

Each device in the USB264x/2660 family consists of USB 2.0 device transceivers with 2-port hub functionality, a fast 8051 microprocessor and Memory Stick® (MS), xD-Picture Card™* (xD) and Secure Digital (SD) controllers in a single, fully-integrated chip. The USB2660 has an additional SD/MMC/eMMC port. This family of devices offers USB expansion ports as well as a Flash card media reader/writer capable of ultra high-performance operation. Average sustained transfer rates exceeding 35MB/s are possible if the media and host can support those rates.**

*Microchip makes the following part-numbered device available for purchase only by customers who are xD-Picture Card licensees: USB2640, USB2660. By purchasing or ordering any of such devices, Buyer represents, warrants, and agrees that Buyer is a duly licensed Licensee under an xD-Picture CardTM License Agreement with Fuji Photo Film Co., Ltd., Olympus Optical Co., Ltd., and Toshiba Corporation; and that Buyer will maintain in effect such xD-Picture Card license and will give Microchip reasonable advance notice of any termination or expiration of such xD-Picture Card license, but in no event less than five days advance notice. Microchip may discontinue making such devices available for purchase by Buyer and/or discontinue further deliveries of such devices if such xD-Picture Card license shall expire, terminate, or cease to be in force, or if Buyer is or becomes in default of such xD-Picture Card license.

**Results are based on actual measurements on evaluation platforms developed by Microchip, and are meant only as a general guideline, not as a guarantee. Actual customer results may vary based on a number of factors, including board layout and measurement technique.

*The USBCheck online design review service is subject to Microchip's Program Terms and Conditions and requires a myMicrochip account.

Key Features

Highlights

Ultra-fast Flash media reader/writer with two exposed downstream ports for external peripheral expansion

Optimizes footprint with an approximate 40% board space reduction compared to prior Microchip discrete devices

Reduces power consumption by approximately 30% versus alternative Microchip discrete solutions

Supports MultiMediaCard™ (MMC)/SD, MS/MS-Pro™/MS-Pro-HG and xD cards, among others

USB2660 supports additional MMD/SD Card or SDIO port

Internal code configurable using an external I2C™ EEPROM; support for external code using an SPI Flash EEPROM

Configurable software architecture supports customization for customer-specific applications and field upgradeable firmware

Ability to place the device away from the main board to deliver USB connectivity where it is needed within the system

7x7mm,48-pin QFN package (USB264x family) and 9x9mm, 64-pin QFN package (USB2660); both and RoHS-compliant

Industrial temperature range (-40° to +85°C) options available

Target Applications

Printers

Desktop and Mobile PCs

Consumer Audio/Visual (A/V)

Digital TVs

Monitors

Media Players/Viewers

Gaming Consoles

Digital Photo Frames

Set-top Boxes

Recommended For You

USB3320C-EZK-TR

Microchip Technology, Inc

QFN32

USB3343-CP-TR

Microchip Technology, Inc

QFN24

USB3318-CP-TR

Microchip Technology, Inc

QFN24

USB2513B-I/M2

Microchip Technology, Inc

QFN36

USB3315

Microchip Technology, Inc

QFN

USB2504-JT

Microchip Technology, Inc

QFP64

USB3318

Microchip Technology, Inc

QFN

USB3318C-CP-TR

Microchip Technology, Inc

QFN24

USB3340-EZK-TR

Microchip Technology, Inc

QFN32

USB2422T-I/MJ

Microchip Technology, Inc

SQFN24

USB3503AI-1-GL-TR

Microchip Technology, Inc

WLCSP25

USB2660I-JZX-03

Microchip Technology, Inc

QFN

USB2507-ADT

Microchip Technology, Inc

QFP

USB3317C-CP-TR

Microchip Technology, Inc

QFN24

USB3370B-EZK-TR

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32-VFQFN