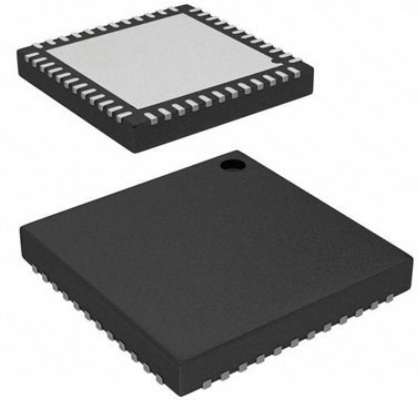Low Speed/Full Speed/High Speed USB 2.0 Hub and Flash Media Card Controller Combo
USB 2.0 3.3V Tray 48-Pin VQFN EP

Manufacturers	Microchip Technology, Inc
Package/Case	VQFN-48
Product Type	Interface ICs
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for USB2642-I/ML or Email to us: sales@ovaga.com We will contact you in 12 hours.   RFQ

General Description

The USB2642 is a USB 2.0 compliant, hi-speed hub and card reader combo solution. This fully-integrated, single chip solution provides USB expansion and flash media reader/writer integration. The Microchip USB2642 provides an ultra fast interface between a USB host and today's popular flash media formats. The controller allows read/write capability to flash media including the following:• Secure Digital™ (SD)• SD High Capacity™ (SDHC)• SD Extended Capacity™ (SDXC)• MultiMediaCard™ (MMC)• Embedded MultiMediaCard (eMMC)The USB2642 offers a versatile, cost-effective and energy-efficient hub controller with 2 downstream USB 2.0 ports and a flash media interface. The flash media interface can support sustained transfer rates exceeding 35 MB/s. Additionally, the USB2642 provides an I2C over USB bridge and an SD over USB bridge. The I2C bridge allows for control of any I2C slave device operating at 50KHz serial clock, while the SD bridge supports the use of managing memory devices through SDIO commands.*The USBCheck online design review service is subject to Microchip's Program Terms and Conditions and requires a myMicrochip account.

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), Embedded MMC (eMMC) and SD cards

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

RoHS-compliant 7x7mm,48-pin QFN package

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

Target Applications

Comms Equipment

Servers

Printers

Digital TVs

Monitors

Media Players/Viewers

Gaming Consoles
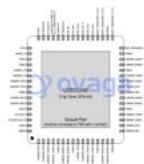
Digital Photo Frames

Set-top Boxes

Related Products

[USB2512B-AEZG-TR](#)

Microchip Technology, Inc

VQFN-36

[USB5534B-5000JZX](#)

Microchip Technology, Inc

QFN-64

USB3250-ABZJ

Microchip Technology, Inc

VQFN-56

USB2514B-AEZG

Microchip Technology, Inc

VQFN-36

USB2513B-AEZC

Microchip Technology, Inc

VQFN-36

USB2512-AEZG

Microchip Technology, Inc

VQFN-36

USB2504A-JT

Microchip Technology, Inc

LQFP-64

USB2514-HZH

Microchip Technology, Inc

VQFN-48