## CSC0101A

## Dual PS/2 to USB Data Converter Controller

### **Features**

- Interface legacy PS/2 devices to USB
- Provides two PS/2 port
- PS/2 ports support 3 dimensions 3keys wheel mouse and multimedia keyboard function
- No driver needed
- ♦ Hot pluggable
- USB Specification 1.1 low-speed compliant
- PS/2 ports are auto selectable and hot swappable
- Mice or keyboard can be used in either port without limitation
- Cost-effective and easy to implement for PS/2 to USB bridge solution
- SOP-16 package or dice form

## Introduction

The CHESEN CSC0101A is an integral micro-controller for converting PS/2 interface signal to USB applications, which includes 8 bits high performance micro-controller core, combined USB1.1 low-speed interface and dual PS/2 handler module. It is ideal for the legacy system support, enabling seamless connections of traditional PS/2 interfaces enabling seamless connections enabling seamless connections enabling seamless enab devices of mouse and keyboard to USB.

The CSC0101A is a USB 1.1 low-speed compliant device that interfaces to PS/2, it support the Human Interface Device (HID) class specification. The CSC0101A handles the merging of the PS/2 data and sends the data to the host system via the USB port.



## **Specifications**

#### **8-bits Controller Core:**

- ♦ 8 bits 65C02 controller
- 6MHz external ceramic resonator
- 3MHz internal CPU clock
- One 8-bits timer / counter
- Support power saving mode
- Built in power on reset with watchdog function

#### Memory:

- 8K byte internal ROM
- 256 byte internal RAM

#### **USB Port:**

- Fully compliant to USB 1.1 specification
- ◆ Conforms to USB HID specification, version 1.1
- Supports 1 low speed device address and 3 endpoints
- Integrated USB transceiver
- Build in 3.3V regulator
- 8 bytes FIFO for each endpoint
- Interface transfer rate: 1.5Mbits/sec

#### PS/2 Port:

- wireless peripheral or bar code reader
- Compatible with PS/2 protocol
- ◆ Two PS/2 ports
  - . Standard PS/2 keyboard with multimedia function
  - . Standard PS/2 3D/3Keys mouse
- Mice or keyboard can be used in either port

#### Miscellaneous:

• Works with PC Win98 SE, Win Millennium, Win 2000, Win XP Netware 4.11, 5.0 HP Unix, Linux, Apple computer MAC OS8.6 or higher and Sun Microsystems





# CSC0101A

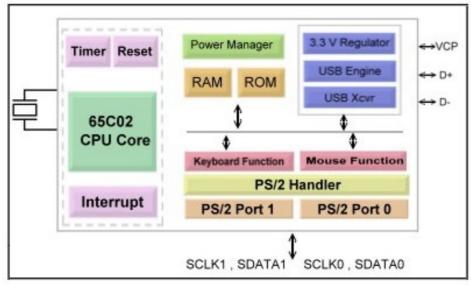
## Dual PS/2 to USB Data Converter Controller

## **Applications**

PS/2 Keyboard/Mouse to USB

PS/2 Barcode Reader to USB

Wireless PS/2 Keyboard/Mouse Set to USB



DataSheet4U.com

**CSC0101A Functional Block Diagram** 

Copyright © 2004 CHESEN ELECTRONIC CORP. – All Right Reserved

TEL: 886-2-82265589 FAX: 886-2-82265181

MAIL: sales@mail.chesen.com.tw SERVICE: service@mail.chesen.com.tw RESOURCE: dcc@mail.chesen.com.tw

Contents and specification subject to change without notice. The CHESEN ELECTRONICS CORP. logo is a registered trademark of CHESEN

WEBSITE: http://www.chesen.com.tw

ELECTRONICS CORP. Other brands of products are trademarks or registered trademarks of their respective holders. **B\_CSC0101A\_1.20** 

Character Sheet 4U.com

DataSheet4

et4U.com