

USBHS-51_SS

8051-optimized USB 2.0 High Speed Software Stack

MAJOR FEATURES

- ◆ Compliance with USB 2.0 High Speed specification
- ◆ Complete support for the **USBHS-DEV** USB 2.0 High Speed Controller
- ◆ Optimized for 8051-compliant microcontrollers
- ◆ Designed for applications of the majority of USB classes
- ◆ Written in ANSI C
- ◆ CPU and OS independent
- ◆ Meets USB-IF certification requirements

DELIVERABLES

- ◆ Software Stack C source code
- ◆ Software Stack Keil C compiler libraries
- ◆ User documentation
- ◆ A rich set of example applications

RELATED PRODUCTS

USBHS-DEV - USB 2.0 High Speed device controller with UTMI/ULPI PHY interfaces and Generic/AMBA®/P/PCI interfaces for the CPU.

USBHS51_AP - Complete System-on-Chip solution that integrates the **R8051XC2** microcontroller, the **USBHS-DEV** and the **USBHS-51_SS**.

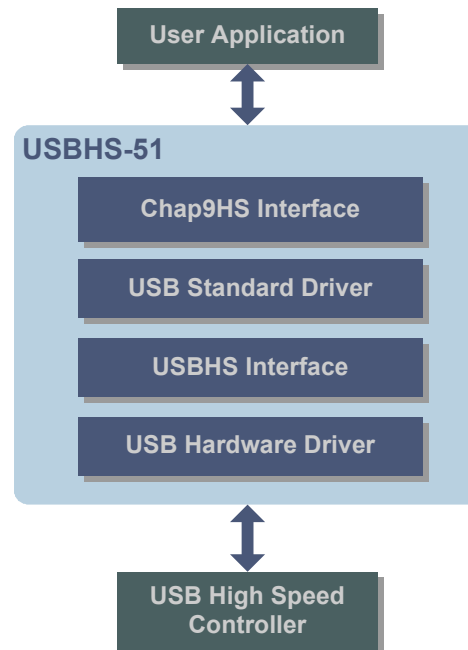
OVERVIEW

The **USBHS-51_SS** is a USB 2.0 High Speed device software stack designed to take full advantage of the 8051 Instruction Set Architecture (ISA) compliant microcontroller as well as the USB High Speed Controller.

The software stack provides the USB device with a user-friendly Application Programming Interface (API), which allows a user to build his own 8-bit applications without a detailed knowledge of the USB High Speed controller hardware.

A rich set of attached applications reduces the learning curve and allows writing robust embedded software for 8-bit USB-enabled Systems-on-Chips.

BLOCK DIAGRAM



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