USB3.0 HOST xHCI DRIVER

Overview

Arasan provides the **eXtensible Host Controller Interface (xHCI)** driver for the USB 3.0 Host stack that makes it possible to communicate with the USB 3.0 device through the xHC hardware.

The driver conforms to the latest USB 3.0 and xHCI specifications; it allows existing and new developments to easily migrate to the USB 3.0 specification. It is designed to seamlessly integrate into any OS design for an easy and cost effective solution.

It is also possible to validate the xHCI driver without the xHC hardware by using the Test harnesses developed for application layer and hardware layer.

Arasan Total IP Solution

Arasan have extensive domain expertise in USB protocol and provides service for doing validation and reference design creation by providing the expertise in domain and other related functional area.

Features

- Compliant with eXtensible Host Controller Interface for USB 3.0 version 0.9
- Portability in choice of OS, processors and hardware
- Easy-to-use interface for applications
- Fully documented generic device operation API
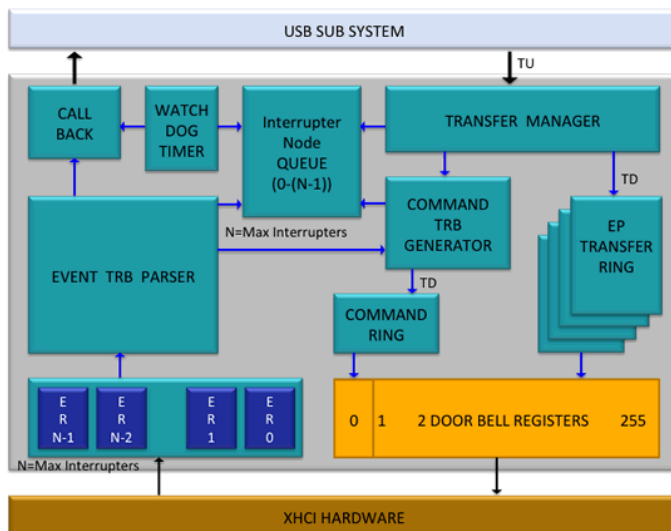- Easy to integrate with any USB Host Stack

Applications

- Can be used for data storage, mobile computing and imaging devices
- System manufacturers can port the xHCI driver to respective system hardware and operating system to produce end user solution

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Description

The Application Programming Interface (APIs) is used to make the xHCI driver portable to any USB Host stack. These APIs abstracts the USB Core layer differences from the xHCI driver code. Using these APIs, the xHCI driver can be integrated with any USB Host stack.

Figure 1: USB 3.0 xHCI Driver Software Architecture

Arasan Chip Systems

Arasan Chip Systems is a leading provider of Total IP solutions for mobile storage and connectivity applications. Arasan's high-quality, silicon-proven, Total IP Solutions include digital IP cores, analog PHY interfaces, verification IP, hardware verification kits, protocol analyzers, software stacks and drivers and optional customization services for MIPI, USB, SD, SDIO, MMC/ eMMC, CF, UFS and many other popular standards.

Benefits

- Silicon developers can use the driver and board environment to test the device silicon during development
- Silicon vendors can use the stack to create a reference system design to provide to their IC customers

Deliverables

- Source code and/or binaries for xHCI driver
- User Manual
- API Guide
- Release Notes

Related Link:

USB 3.0 xHCI Driver Software:
http://arasan.com/products/software/usb-3-0-xhci-driver/

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