

Beyond PS/2 Controller

Introduction

The Beyond PS/2 (Personal System/2) Controller is a configurable core suitable for implementing support for standard keyboard and mouse devices in an embedded system. It consists of a synthesizable Verilog RTL core that provides all features necessary to implement support for either one or two devices in a single core and bench simulation environment for verifying core functions.

For information on various licensing options or other IP cores please contact sales@beyondsemi.com or visit our website at <http://www.beyondsemi.com>. Some features may be omitted in this datasheet or might be shortly available. If you require something not listed here or if in doubt we encourage you that you contact our sales department at sales@beyondsemi.com.

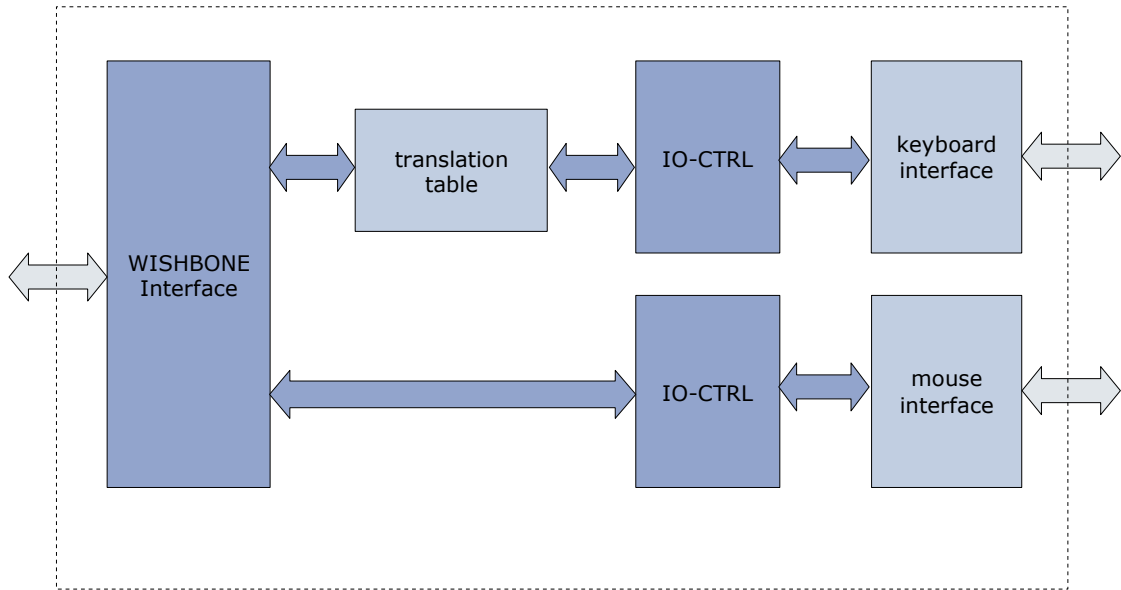
Features

- with either keyboard or mouse device
- PS/2 core can be configured to use single or dual connection signals within the same core
- compliant interface
- PS/2 can operate in pooling or interrupt mode

Architecture

Figure on next page shows the general architecture of the Beyond PS/2 IP core. It consists of following building blocks:

- WISHBONE host interface
- Character translation table
- IO control logic
- Interface to keyboard or mouse



Beyond PS/2 IP Core

Easy and Quick Start

Deliverables

- Full Verilog RTL source
- Extensive Test Bench
- Documentation
- Linux Driver
- Free Engineering support

Target Applications

- Embedded
- Portable
- Home entertainment consumer electronics

Beyond Semiconductor reserves the right to make changes in specifications at any time and without notice. The information furnished by Beyond Semiconductor in this publication is believed to be accurate and reliable. No responsibility, however, is assumed by Beyond Semiconductor for its use, nor for any infringements of patents or other rights of third parties resulting from its use. No license is granted under any patents or patent rights of Beyond Semiconductor. This product is intended for use in normal commercial applications. Use of this product in applications such as life-support or life-sustaining equipment is specifically not authorized without the express written approval of the president of Beyond Semiconductor.