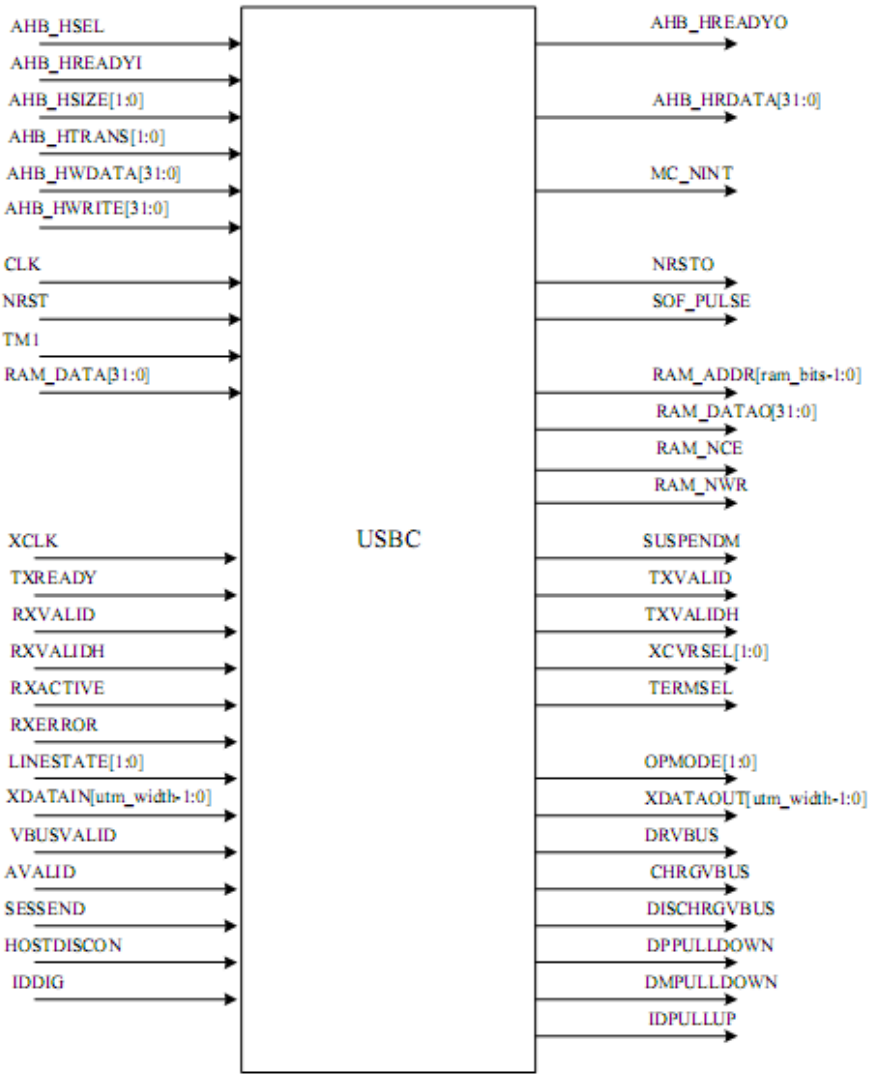
USBC
USB Controller Module

Summary

The USBC operates as the USB2.0 host/peripheral USB controller with AMBA AHB compatible interface. It complies with the USB2.0 standard for high-speed and full-speed, also supports Suspend and Resume signaling. It is configurable for different transmit and receive endpoints base on different requirement, and supports four types USB transfer.



USBC Interface Diagram

Features

- Complies with USB 2.0 standard, also support USB OTG.
- Supports point-to-point communications with one high-, full- or low-speed device
- Support Control, Bulk, Interrupt, Isochronous transfer
- Configurable for up to 15 additional transmit endpoints and up to 15 additional Receive endpoints
- Configurable FIFOs
- High-level AMBA AHB-compatible interface
- Synchronous RAM interface for FIFOs
- Encodes, decodes, checks and directs all USB packets sent and received
- Suspend and resume signaling
- Soft connect/disconnect option

Performance and Characteristics

- Die Size：0.76 mm^2
- Process：0.18μm (WCS, 1.62V, 120°)

Deliverables

- Verilog HDL source code
- Verilog HDL test pattern
- Documentation

Availability

- Q2, 2006

To obtain more information about the USBC *or other C*Core™ products, please contact the C*Core Technology Co., Ltd. by phone: 0512-68091375, email: support@china-core.com or web: http://www.china-core.com.*

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