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April 1st, 2010 Renesas Electronics Corporation

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PRODUCT BRIEF

μ PD720200

USB 3.0 HOST CONTROLLER

The μ PD720200 is the Universal Serial Bus 3.0 host controller, which complies with Universal Serial Bus 3.0 Specification, and Intel's eXtensible Host Controller Interface (xHCI).

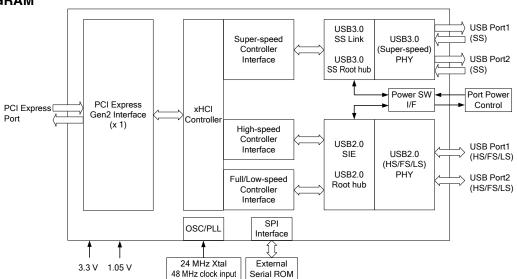
The μ PD720200 has PCI Express® bus interface, and it is applicable for PCI Express solution for host PC system. The μ PD720200 works up to 5 Gbps for data transfer when connecting to USB 3.0 compliant peripherals, while maintaining compatibility with existing USB peripheral devices.

FEATURES

- Compliant with Universal Serial Bus 3.0 specification Revision 1.0, which is released by USB Implementers Forum, Inc
 - Supports the following speed data rate as follows;
 Low-speed (1.5 Mbps) / Full-speed (12 Mbps) /
 High-speed (480 Mbps) / Super-speed (5 Gbps)
 - Supports 2 downstream ports for all speeds
 - Supports all USB compliant data transfer type as follows;
 Control / Bulk / Interrupt / Isochronous transfer
- Compliant with Intel's eXtensible Host Controller Interface (xHCI) Specification Revision 0.96
- · Support USB legacy function

- Compliant with PCI Express Base Specification Revision
 20
- Supports ExpressCard[™] Standard Release1.0
- Supports PCI Express Card Electromechanical Specification Revision 2.0
- Supports PCI Bus Power Management Interface Specification Revision 1.2
- Operational registers are direct-mapped to PCI memory space
- Supports Serial Peripheral Interface (SPI) type ROM
- System clock: 24 MHz crystal or 48MHz external clock.
- 3.3 V and 1.05 V power supply

BLOCK DIAGRAM



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Date Published November 2009 NS

Printed in Japan



PACKAGE

• 176-pin plastic FBGA (10 x 10 mm, 0.65 mm ball pitch)

APPLICATION

- Desktop / Laptop PC
- PCI Express card / ExpressCard
- Docking Station
- Server

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