

PRODUCT BRIEF

μPD720171

WIRELESS USB HOST CONTROLLER

The μPD720171 is the Wireless Universal Serial Bus (Wireless USB) host controller, certified by USB Implementers Forum (USB-IF). Also, the μPD720171 complies with WiMedia® MAC specification, and Intel's Wireless Host Controller Interface Specification.

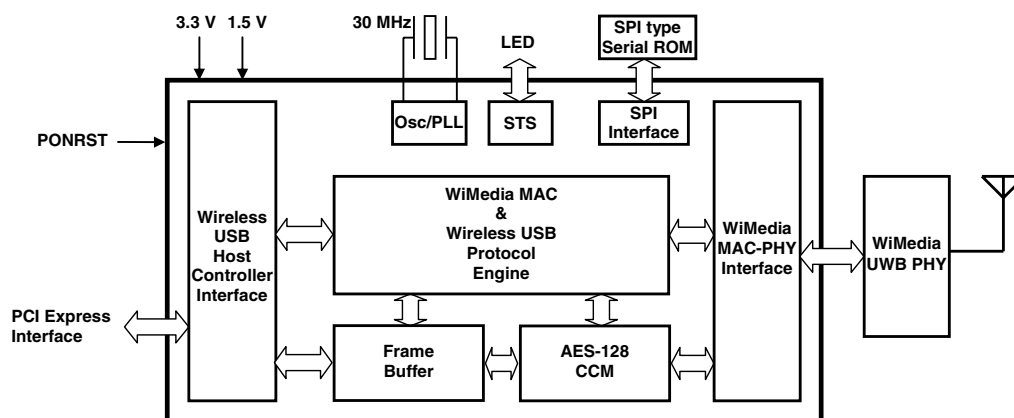
The μPD720171 has PCI Express® bus interface, and it is applicable for PCI Express solution for host PC system. The μPD720171 works up to 480 Mbps for data transfer when connecting to Wireless USB compliant peripherals.

The μPD720171 has MAC-PHY interface which complies with WiMedia MAC-PHY interface specification, builds up with WiMedia PHY to Wireless USB host system.

FEATURES

- Compliant with Wireless Universal Serial Bus specification Revision 1.0, that released by USB Implementers Forum, Inc
 - Supports eight speed of data rate as follows; 53.3 / 80.0 / 106.7 / 160 / 200 / 320 / 400 / , 480 Mbps
 - Supports three USB compliant data transfer type as follows; Control / Bulk / Interrupt transfer. (Except for Isochronous transfer type) and Wireless USB compliant Device Notification
 - Supports up to 32 connections to physical Wireless USB compliant devices
 - Supports AES-128 CCM
- Compliant with Intel's Wireless Host Controller Interface (WHCI) Specification revision 0.96
- Compliant with WiMedia Distributed Media Access Controller (MAC) for Wireless Networks release 1.2
- Compliant with WiMedia MAC-PHY interface specification revision 1.2
- Compliant with PCI Express Base Specification 1.1
- Supports ExpressCard™ Standard Release1.0
- Supports PCI Express Mini Card Electromechanical Specification Revision 1.2
- Supports PCI Express Card Electromechanical Specification Revision 1.1
- Supports PCI Bus Power Management Interface Specification revision 1.1
- Self Beaconsing Device
- Supports distributed reservation protocol
- Operational registers are direct-mapped to PCI memory space
- Supports indicator for host controller status with LED
- Supports Serial Peripheral Interface (SPI) type ROM
- System clock is generated by 30 MHz crystal.
- 3.3 V and 1.5 V power supply

BLOCK DIAGRAM



PACKAGE

- 129-pin plastic FBGA (9x9)

APPLICATION

- PC peripherals
 - PCI Express MiniCard
 - ExpressCard
 - PCI Express Card

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