

PRODUCT BRIEF

μPD720170

WIRELESS UNIVERSAL SERIAL BUS HOST CONTROLLER LSI

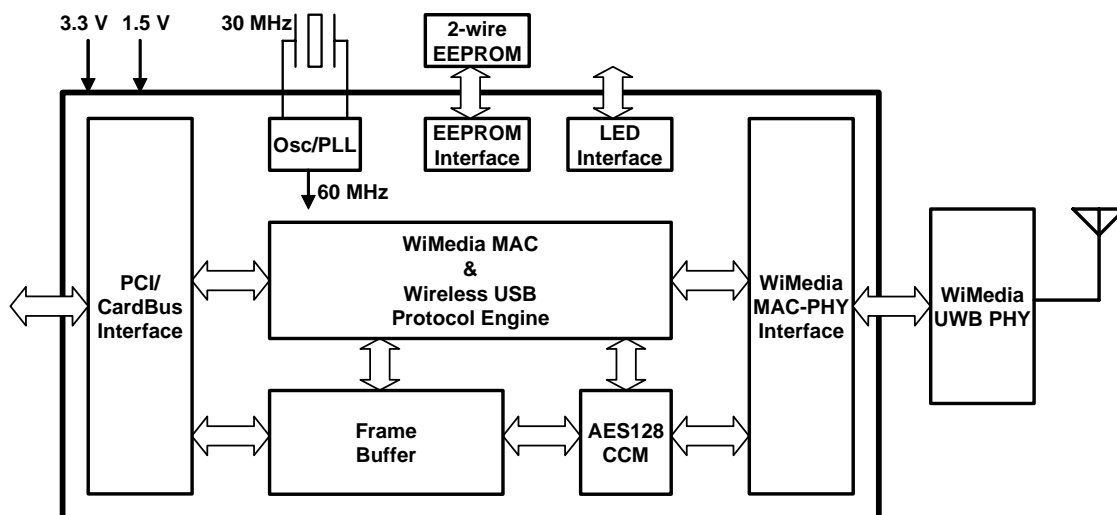
The μPD720170 is a LSI for the wireless universal serial bus host controller.

The μPD720170 complies with WiMedia MAC specification, wireless universal serial bus specification and wireless host controller interface specification. The μPD720170 is connected to host system with PCI-bus. The μPD720170 is used with WiMedia UWB PHY that complies with WiMedia MAC-PHY interface specification.

FEATURES

- Compliant with wireless universal serial bus specification
 - Supports eight data rates (53.3 Mbps, 80.0 Mbps, 106.7 Mbps, 160 Mbps, 200 Mbps, 320 Mbps, 400 Mbps, 480 Mbps)
 - Supports three data transfer types (control transfer, bulk data transfer and interrupt data transfer)
 - Supports up to 32 physical wireless USB devices
 - Supports AES-128 CCM
- Compliant with wireless USB association model guideline
- Compliant with WiMedia MAC specification
- Compliant with WiMedia MAC-PHY interface specification
- Compliant with wireless host controller interface specification
- Modular 32-bit 33 MHz host interface compliant to PCI specification release 2.2 and PC card standard 8.0
 - Supports PCI-bus power management interface specification release 1.1
 - PCI signal input pins have 5 V tolerant circuit
- Operational registers are direct-mapped to PCI memory space
- Supports 2-wire serial EEPROM interface
- 30 MHz crystal clock source
- 3.3 V and 1.5 V power supply

BLOCK DIAGRAM



PACKAGE

- 144-pin plastic FBGA (12x12)

APPLICATION

- CardBus card, PCI board and MiniPCI card for PC, and the other systems with PCI

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