

Etron EJ168 USB 3.0 Host Controller

The award-winning EJ168 USB 3.0 Host Controller is a cutting edge product with the world's fastest access speeds and best compatibility. It meets the newest xHCI (Extended Host Controller Interface) 1.0 specification provided by USB Implementers Forum, enabling the accelerated adoption of USB 3.0 technology in computers and multimedia electronic products worldwide. In addition, it has received a Windows Logo certificate from Microsoft's Windows Hardware Quality Labs (WHQL), representing mainstream acceptance of Etron's wholly self-designed product and technology and ensuring that customer products will interact with Windows OS smoothly and provide a stable and superior performance. With its completely independently developed IP technology, EJ168 helps customers to optimize performance on each layer from the physical layer (PHY) to the driver and achieve the best overall system performance providing consummate service and support.

For the remarkable features, EJ168 USB 3.0 Host Controller is just awarded the "2010 Info Month Outstanding IT Applications/ Products Award" in Taiwan.

Features:

Host Interface

- Compliant with the PCI Express Base Specification Revision 2.0
- Supports the PCI Bus Power Management Interface Specification Revision 1.2
- Supports the SPI/I2C type ROM/ flash
- System clock uses either 25MHz crystal or external clock
- 3.3V for I/O power and 1.2V for core power

Package

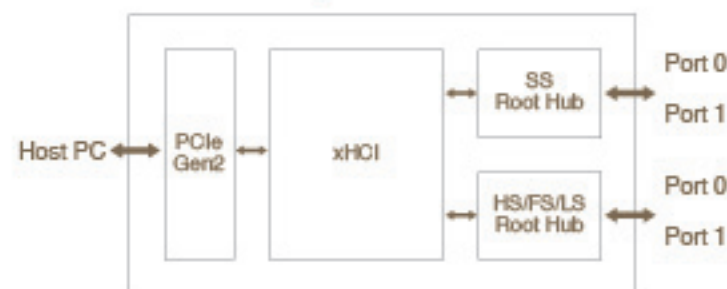
- 100-TQFP (14mm x 14mm)

USB Interface

- Compliant with the Universal Serial Bus 3.0 specifications Revision 1.0
- Supports data rate: LowSpeed (1.5 Mbps)/ FullSpeed (12 Mbps)/ HighSpeed (480 Mbps)/ SuperSpeed (5 Gbps)
- Two downstream USB3.0 ports
- Support USB data transfer types: Control/ Bulk(stream)/ Interrupt/ Isochronous transfer
- Compliant with eXtensible Host Controller Interface (xHCI) Specification revision 1.0

The EJ168 is a PCIe Gen2 to Universal Serial Bus 3.0 Host Controller, which complies with PCIe Gen2 specifications, USB3.0 specifications and eXtensible Host Controller Interface (xHCI) 1.0. The EJ168 has a PCIe Gen2 x1 lane for the PC host system and two USB3.0 downstream ports, which provide SuperSpeed, HighSpeed, FullSpeed and LowSpeed signals for USB 3.0 compliant peripherals and existing USB 2.0/1.1 peripheral devices.

EJ168 Block Diagram



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