

ASM1042A



General Description

The ASM1042A is ASMedia's new generation of Universal Serial Bus 3.0 extended host controller, bridging PCI Express to two ports of USB3.0, ASM1042A is designed for high speed, low power data transmit, backward compatible with current USB2.0 standard and complies with Intel's eXtensible Host Controller Interface (xHCI) Revision1.0.

The ASM1042A supports UASP (USB Attach SCSI Protocol) and Debugport function. It is certified for Win8 WHCK and is supported by Linux and MAC OS platforms. ASM1042A is highly integrated with ASMedia PCI Express, SuperSpeed USB and USB2.0 self-design PHYs. The application of ASM1042A includes PC, mobile, consumer electronic device and communication application.

Features

1. General Feature

- *Bridge one lane PCI Express Gen II to two ports of USB3.0
- *Upload the firmware through BIOS support or external SPI ROM
- *Flexible clock design via external 20MHz differential crystal or 48MHz single-end clock input
- *Overclock capability on PCI Express bus under asynchronous mode
- *Integrated Spread Spectrum Controller for PCI Express and USB3.0 interface
- *Support Windows, Linux and MAC OS Platform
- *3.3V IO power supply and 1.05V core power supply

2. PCI Express Feature

- *Support one lane PCI Express
- *UP to 5Gbps bandwidth performance with low latency
- *Compliant with PCI Express Base 2.0 Specification
- *Support PCI Express Card Electromechanical 2.0 Specification
- *Support PCI Bus Power Management Interface Specification Revision1.2
- *Support Express Card Standard Revision 2.0
- *Support overclocking capability on PCI Express Interface

3. USB Feature

- *Compliant with USB 3.0 Specification Revision 1.0
- *Compliant with USB Specification Revision 2.0
- *Compliant with xHCI specification Revision 1.0
- *Compliant USB Attached SCSI Protocol Revision1.0
- *Support USB Super-Speed, High-Speed, Full-Speed and Low Speed Operation
- *Support Control, Bulk, Stream, Interrupt, Isochronous transfer type
- *Support independent port power control and over current detection
- *Support Legacy device and Wakeup event
- *Support the function of Debugport

Package type

- *Green package 8X8 QFN64 and 6X6 QFN48 (Pb-free)-RoHs Compliance

产品描述 (功能)

Universal Serial Bus 3.0 extended host controller / QFN64 Package

ASM1042 PDF 資料表:



Image Info :

[Unspecified]

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