M5632

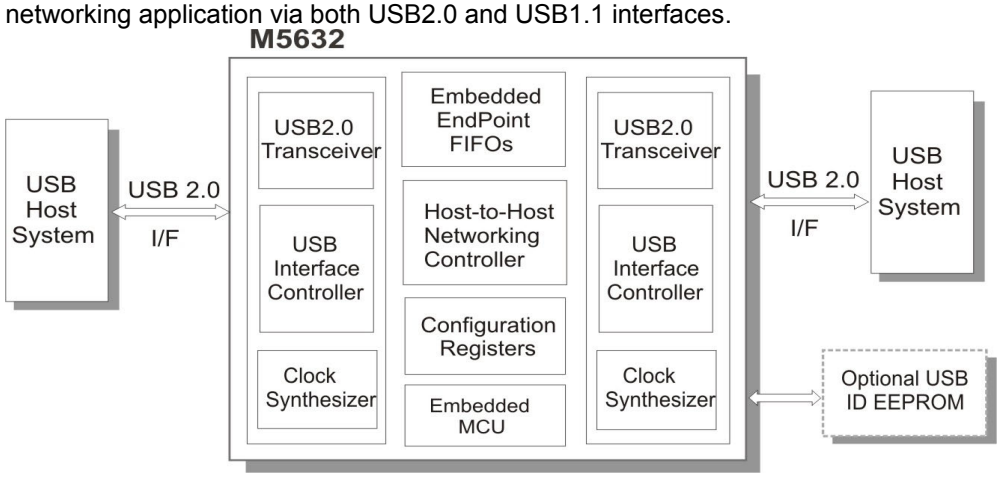
USB2.0 Host-to-Host Networking Controller

Preliminary Product Brief

FEATURES :

+ **USB Specification revision 2.0 Compliant**
+ **Glueless Single-chip Integration** with two on-chip USB2.0 Transceivers, Controllers and Ping-Pong FIFOs
+ **User-Configurable Endpoints for Each USB2.0 Controller**
  - Endpoint 0 : 64-byte FIFO support for Control transfer
  - Endpoint A : 512-byte Ping-Pong buffers for Bulk-In transfer
  - Endpoint B : 512-byte Ping-Pong buffers for Bulk-Out transfer
  - Endpoint C : 16-byte Ping-Pong buffers for Interrupt transfer
+ **Proprietary Auto-detecting and Switching Design** to Support Three Kinds of Transfer Operation, i.e. “HS vs. HS”, “HS vs. FS”, “FS vs. FS”
+ **Built-in high-performance micro-controller** for interface and flow control
+ **General Serial EEPROM Interface Support** for Vendor USB ID specification
+ **Built-in Clock Synthesizer** for using low-cost 12Mhz crystal or ext 12Mhz clock sources
+ **48-pin LQFP package, 2.5/3.3V Low-power CMOS Technology**
+ **Support Standard NDIS Compliant Driver or Customized Linker Utility**

ALi's M5632 Host-to-Host Networking Controller provides an USB-based networking solution for two or more USB hosts of PC /Notebook. Designed with the proprietary power-saving technology, M5632 is a low-power single-chip solution with built-in two USB2.0 transceiver/controllers with embedded ping-pong FIFOs for optimized throughput. Through ALi’s proprietary auto detecting and switching method between USB High-Speed (HS) and Full-Speed (FS), ALi M5632 supports a user-friendly oriented host-to-host networking application via both USB2.0 and USB1.1 interfaces.



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ALi Corporation : 2F, 246, NeiHu Rd., Sec 1, Taipei, 114, R.O.C. Tel: 886-2-8752-2000, Fax: 886-2-8751-1001
Homepage : http://www.ali.com.tw

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