

# LT8312 ---Product Brief

## USB2.0 Extender with Demux

### 1. Feature

- USB2.0 signal extension up to 10m over USB cable for Port2
- USB2.0 signal bypass from Port1 to Port3
- Support USB2.0 high speed, full speed and low speed signal transferring
- Support external pin and i2c mode equalization control
- 2 lines data transferring
- Single 3.3V power supply
- QFN20 4mmx 4mm RoHS package
- -40°C to 85 °C operating temperature range
- ESD 2kV HBM

### 2. Description

LT8312 is a low cost high performance USB2.0 extender with demux that provides signal transferring extension over USB cable and also supports signal bypass. Compliant with USB2.0 specification, the LT8312 supports USB2.0, USB1.1 and USB1.0 device connection. The maximum extension length can be up to 10m from the location of USB hub/host. There is only one USB2.0 transferring path working at the same time.

### 3. Application

- PC Motherboard
- Servers and workstation
- KVM system
- Data storage system
- Car system

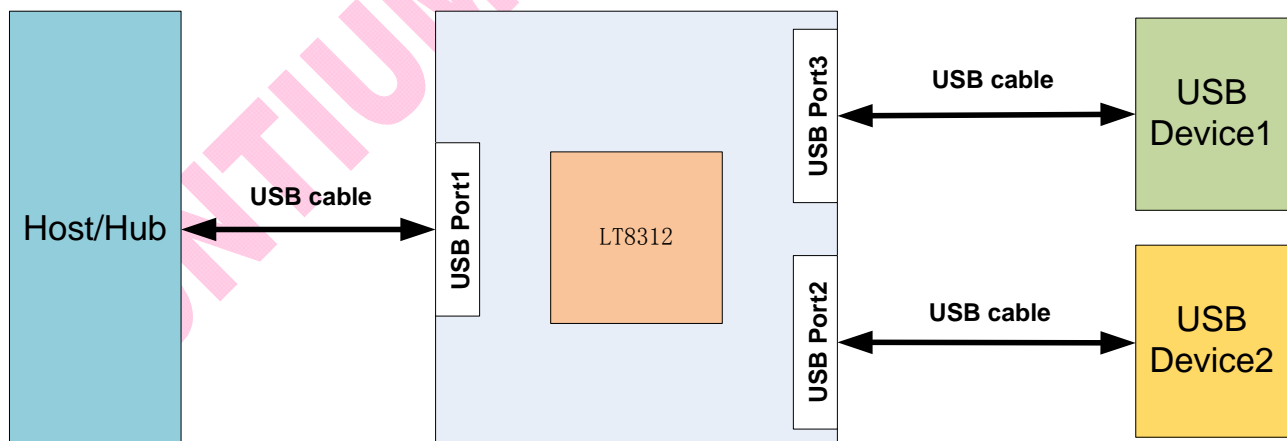


Figure 1. Application Diagram

## 4. Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8312	-40°C to+85°C	QFN20 4*4	Tray

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