

LT8311X --- Product Brief

USB 2.0 Repeater

Features

- Extension length up to 20 meters
- Support USB 2.0 high-speed and USB 1.1 (low-speed and full-speed)
- Support hot plug
- Internal pull-up and pull-down resistor
- I2C control mode for equalization
- Single 3.3V power supply
- 20pin TSSOP RoHS package and QFN 16 RoHS package
- -40°C to 85°C operating temperature range
- 2 lines data transferring
- ESD: HBM to 2KV

Description

LT8311X is a low cost high performance USB repeater that provides signal transferring extension over USB cable, compliant with USB2.0 specification, supports USB2.0, USB1.1 and USB1.0 device connection. The maximum extension length can be up to 20 meters from the location of USB hub/host over USB cable. It eliminates the 5 meters distance limitation of USB2.0 Specification. There are only 2 lines used for data transferring between two LT8311X chips. Internal equalization can be changed by different register settings.

Applications

- Desktop and laptop computers, docking stations
- Servers and workstations
- Data storage systems
- High density media and intelligent monitoring system

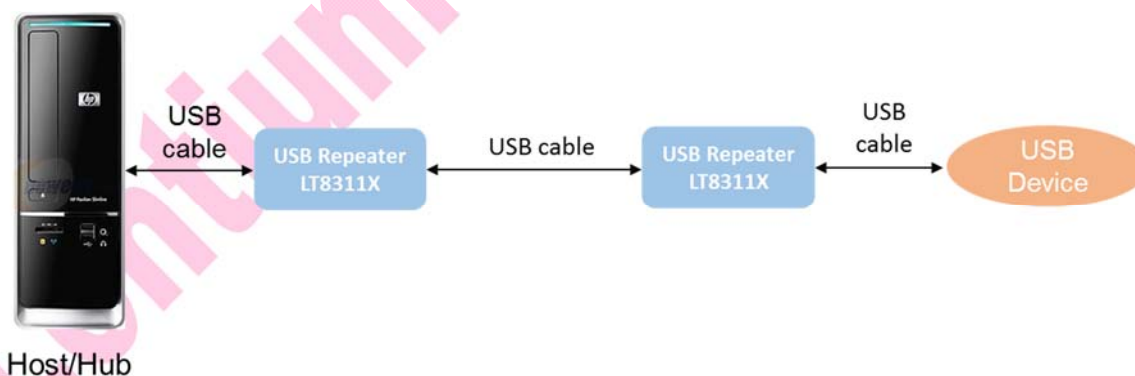


Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8311X	-40°C to +85°C	TSSOP20 / QFN16 (4*4)	Tube

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