

# LT8311SX --- Product Brief

## USB2.0 Extender with Integrated MCU

### Features

#### USB2.0 Extender

- Support HS/FS/LS mode
- Extended USB communication distance over CAT6 Ethernet cable: up to 60m for HS/FS, and up to 130m for LS
- Single pair operation
- Transparent to USB hosts and devices (driver free)
- Support hot plug
- Used in pairs

#### Miscellaneous

- External oscillator
- Integrated microprocessor
- Embedded SPI flash for firmware storage
- GPIOs for system control
- Integrated 100/400kHz I2C slave
- Firmware update through SPI or I2C interface
- Power supply: 3.3V for I/O and 1.2V for core
- ESD 4kV HBM
- Temperature Range: -40 ~ +85

Package: QFN64(7.5mm\*7.5mm)

### Description

The LT8311SX is a high performance USB2.0 extender which provides USB signal repeating over ETH3 net

**Figure1. Application Diagram**

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