

LT8711X --- Product Brief

DP to VGA Converter with USB Type-C Support

Features

- **DisplayPort receiver**
 - DP 1.2 compliant
 - HDCP 1.3 compliant
 - Link rate 5.4/2.7/1.62Gbps (HBR2/HBR/RBR)
 - 1/2/4 lanes
 - Integrated CC controller for USB type-C Alt Mode support
 - 1Mbps AUX channel
 - Equalizer
- **Video DAC**
 - VSIS 1.2 compliant
 - 200MSPS throughput
 - WUXGA timing
 - R/B swappable
 - YPbPr output capable
 - Separate SYNC or embedded SYNC (SOG/SOY)
 - Load sensing
 - Amplitude calibration
 - 5V tolerance DDC I/Os
- **Digital audio output**
 - I2S and SPDIF
 - 8-channel LPCM or compressed audio
 - Sample rate up to 192kHz

- **Miscellaneous**

- Integrated MCU with embedded SPI flash
- Power supply: 3.3V for I/O and 1.2V for core

Description

The LT8711X is a DisplayPort(DP) to VGA converter, designed to connect a DP source to a VGA sink. The LT8711X integrates a DP 1.2 compliant receiver, and a high-speed triple-channel video DAC. The receiver port integrates a CC controller which enables DP Alternate Mode support when connected to a USB Type-C source.

The device is capable of automatic operation that is enabled by an integrated MCU that uses an embedded SPI flash for microcode. System control is also available through the use of a dedicated configuration I2C slave interface.

Two package types are available, LT8711X-A and LT8711X-B, and both are provided in a 64-lead QFN package with ePad and specified over -40°C to +85°C operating temperature range.

Applications

- Docking station
- DP-to-VGA dongle/adaptor

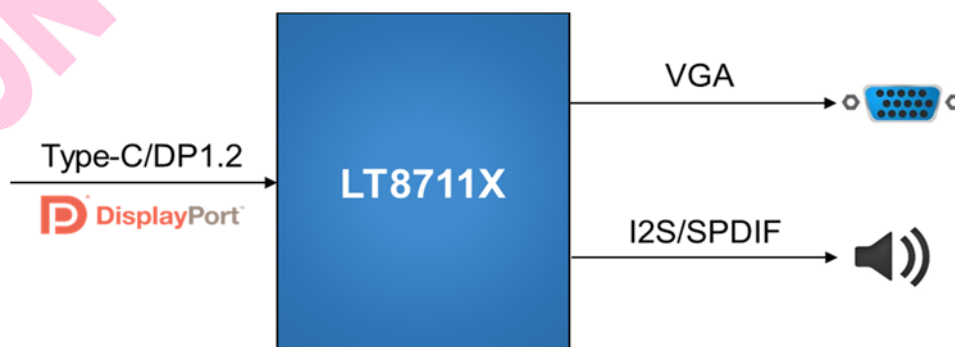


Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8711X-A	-40°C to +85°C	QFN64 (7.5*7.5)	Tray
LT8711X-B	-40°C to +85°C	QFN64 (7.5*7.5)	Tray

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