

# LT8711H --- Product Brief

## DP to HDMI 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
- HDMI transmitter
  - HDMI 1.4 compliant
  - DVI 1.0 compliant
  - AC-couple capable
  - Data rate up to 3Gbps
  - FHD 1080p 60Hz 3D
  - UHD 4k 30Hz
  - Pre-emphasis
  - Downstream RX sensing
  - Output swing calibration
  - 5V tolerance DDC/HPD I/Os
- Integrated MCU with embedded SPI flash
- Power supply: 3.3V for I/O and 1.2V for core

### Description

The LT8711H is a DisplayPort(DP) to HDMI converter, designed to connect a DP source to a HDMI sink. The LT8711H integrates a DP 1.2 compliant receiver, and a HDMI 1.4 compliant transmitter. 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, LT8711H and LT8711H-C, and both are provided in a 64-lead QFN package with ePad and specified over -40°C to +85°C operating temperature range.

## Application

Docking station

DP-to-HDMI dongle/adaptor

## Block Diagram

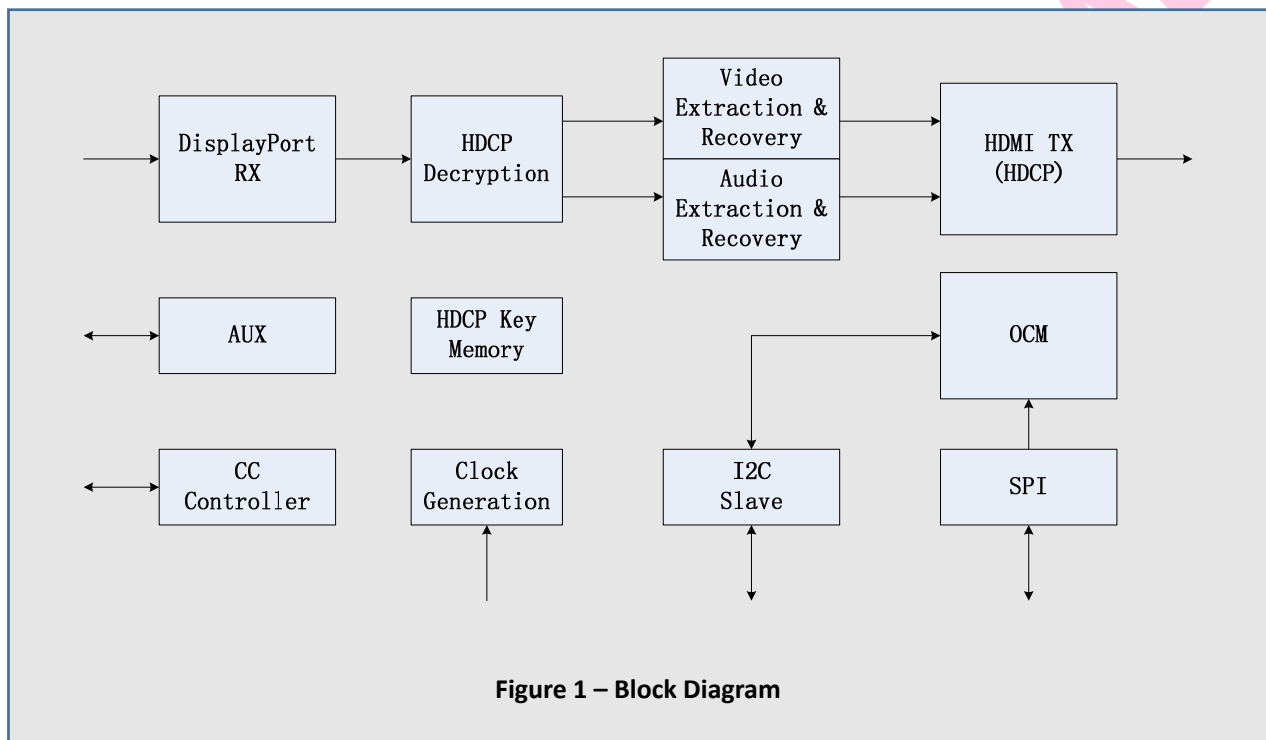


Figure 1 – Block Diagram

## Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8711H	-40°C to +85°C	QFN64 7.5*7.5	Tray
LT8711H-C	-40°C to +85°C	QFN64 7.5*7.5	Tray

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