

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
 - SST/MST mode
 - Equalizer
 - Lane swappable
- 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
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Description

The LT8711H is a DisplayPort(DP) to HDMI converter, designed to connect a DisplayPort source to a HDMI sink. The LT8711H integrates a DisplayPort 1.2 compliant receiver, and a HDMI 1.4 compliant transmitter. The receiver port integrates a CC controller which enables DisplayPort Alternate Mode support when connected to a USB Type-C source.

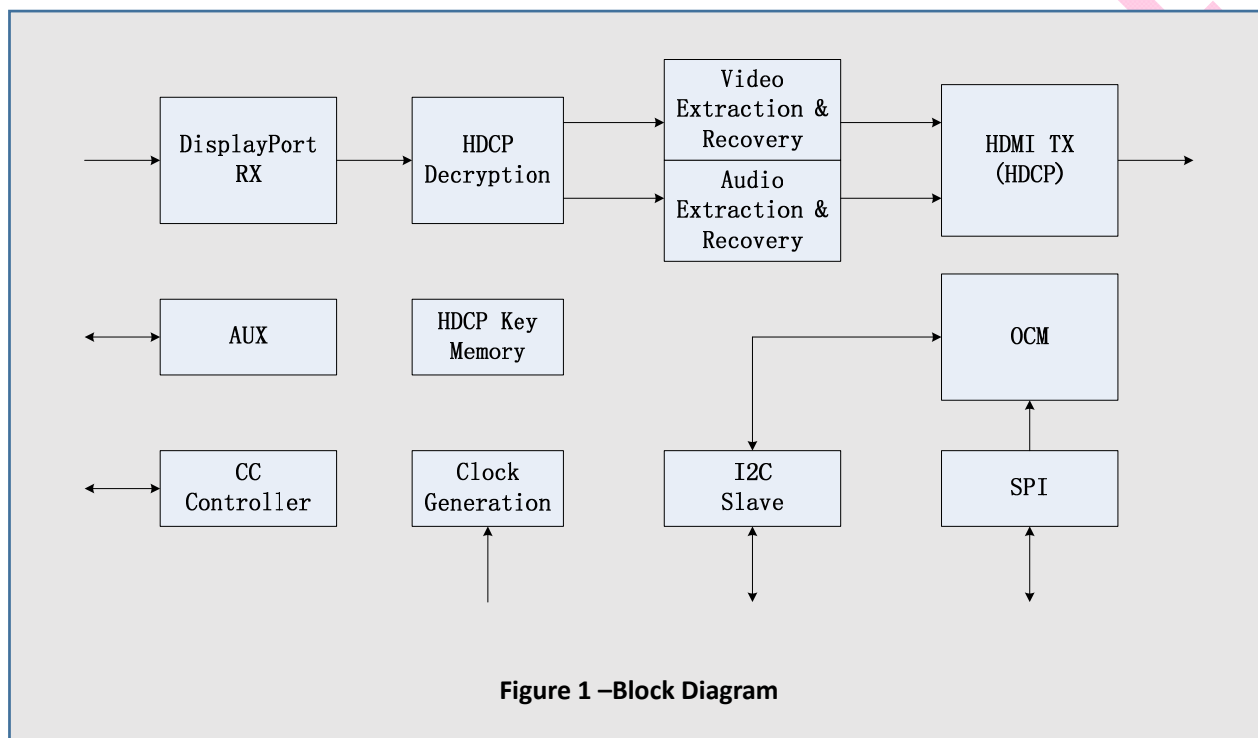
The DisplayPort interface comprises 4 main lanes, AUX channel, and HPD signal. The receiver supports maximum 5.4Gbps (HBR2) data rate per lane and features multi-stream transporting (MST). The high speed differential pairs can be swapped so that the pin order of lane 0 to lane 3 can be flipped. The DisplayPort receiver incorporates HDCP 1.3 content protection scheme with an embedded key option for secure transmission of digital audio-video content.

Application

Docking station

DP-to-HDMI dongle/adaptor

Block Diagram



Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8711H	0° C to +85° C	QFN64	Tape and Reel

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