

# LT8612 --- Product Brief

## HDMI-HDMI/VGA Converter

### Features

- Supports both HDMI output, VGA output or YPbPr output simultaneously, enables multi-standard outputs.
- Supports HDMI input
- HDMI receiver with equalizer, supports 225MHz HDMI clock
- HDMI receiver core compliant with HDMI1.4 specification.
- HDMI transmitter core compliant with HDMI1.4 specification.
- Triple 8-bit DACs, support separated SYNC mode and SOG mode.
- HDCP engine compliant with HDCP1.4 specification.
- Audio decoder support 4-channel I2S and SPDIF (2CH LPCM) audio output.
- Supports CEC while using an external MCU.
- Reflow soldering information: 260□ / (3Sec)

### Description

The LT8612 is an HDMI to HDMI and VGA/YPbPr converter, converts High Definition Multimedia Interface (HDMI) data stream to standard High Definition Multimedia Interface (HDMI) signal and analog RGB/YUV signals. It also outputs 4 channel I2S and SPDIF (2CH LPCM) signals which enables high quality 7.1 channel audio.

Standard HDMI uses 19 lines to implement data transmission. The LT8612 uses the latest ClearEdge™ Technology to implement the conversion of HDMI source devices, such as mobile phone, adapter, etc, to HDMI devices. Also it can output analog RGB signal with or without separate sync signals, or YPbPr.

## Applications

- Digital Signage
- PC, Laptop Mother Boards
- Car Entertainment System
- HDMI to VGA/YPbPr Dongle

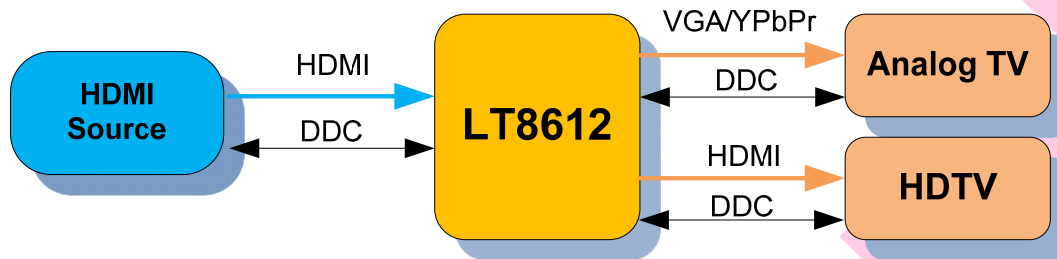


Figure 1. Application Diagram

## Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8612	-40° C to +85° C	12mm x 12mm LQFP80	Tape and Reel

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