

LT8612EX --- Product Brief

HDMI-HDMI/VGA Converter

Features

- Supports both HDMI output, VGA/ YPbPr output simultaneously
- Supports HDMI input
- HDMI receiver with integrated equalizer, supports 300MHz TMDS clock
- HDMI receiver compliant with HDMI1.4 specification
- Supports 3D video format
- HDMI transmitter compliant with HDMI1.4 specification
- 3-channel 10-bit video DAC, supports separated SYNC mode and SOG mode
- HDCP engine compliant with HDCP1.4 specification
- Supports SPDIF and 8-channel I2S audio outputs
- Supports CEC function
- 12x12 80-pin LQFP package, and operates over temperature range of -40°C to +85°C

Description

The LT8612EX is an HDMI to HDMI and VGA/YPbPr converter, which converts HDMI data stream to HDMI signal and analog RGB/YUV signals. It also outputs 8 channel I2S and SPDIF signals which enable high quality 7.1 channel audio.

HDMI uses 19 lines to implement data transmission. The LT8612EX 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 signal.

Applications

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

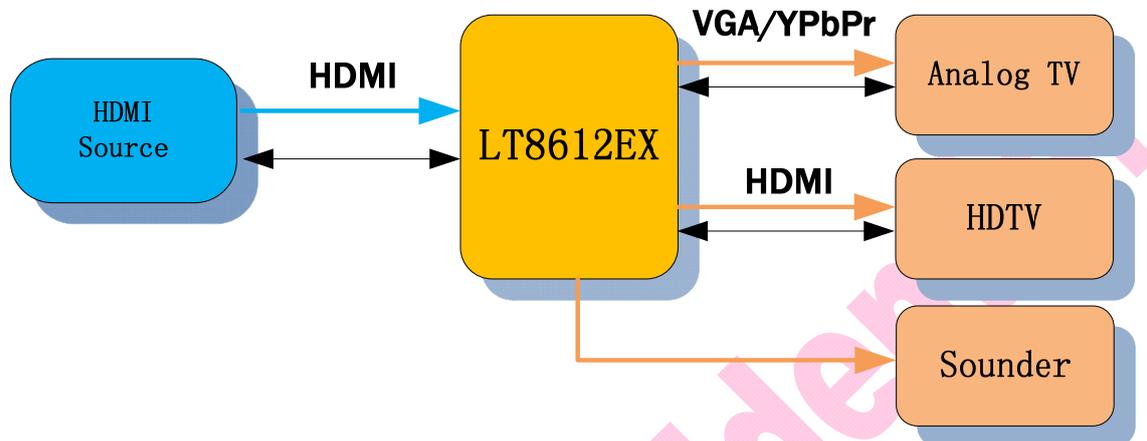


Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8612EX	-40° C to +85° C	12mm x 12mm LQFP80	Tray

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