LT8612SX --- Product Brief

HDMI-HDMI&VGA/YPbPr Converter

Features

- Compliant with HDMI1.4 and HDCP1.4
- HDMI input resolution up to 4Kx2K@30Hz
- HDMI output resolution up to 4Kx2K@30Hz
- VGA output throughput up to 300MSPS
- YPbPr output resolution up to 1080P@60Hz
- Audio output support 8 channel I2S audio outputs or both 6 channel I2S and SPDIF
- Supports 3D format
- Supports CEC

Description

The LT8612SX is an HDMI to HDMI&VGA/YPbPr converter, which converts High Definition Multimedia Interface (HDMI) data stream to standard High Definition Multimedia Interface (HDMI) signal and analog RGB/YUV signals. It also outputs 8 channel I2S and SPDIF signals which enable high quality 7.1 channel audio.

Standard HDMI uses 19 lines to implement data transmission. The LT8612SX 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
- HDMI to VGA/YPbPr Dongle
- Car Entertainment System

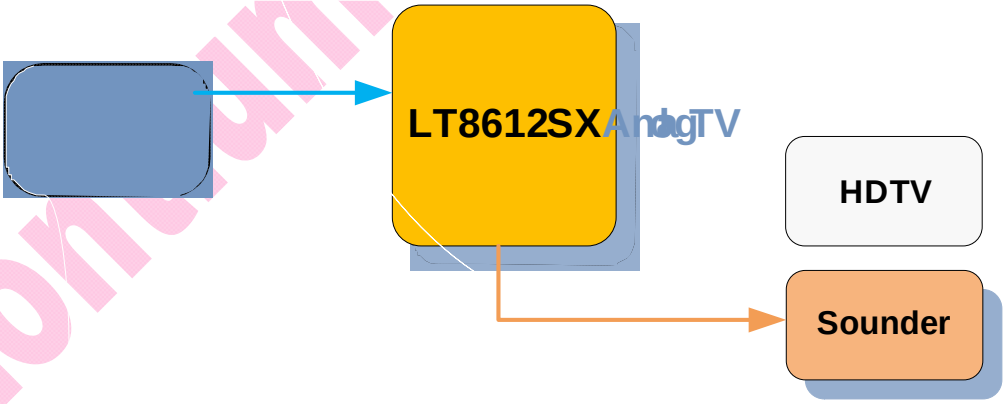


Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8612SX	-40 °C to +85 °C	12mm x 12mm LQFP80	Tape and Reel

Lontium Confidential