

LT8618SX --- Product Brief

Low Power HDMI1.4 Transmitter

1. Features

RGB Input

- Support 24-bit RGB YUV and BT656/BT1120 Input
- Support both SDR and DDR Data Sampling
- Programmable Rising/Falling Edge Clock Input
- Support up to 148.5MHz DDR or 297MHz SDR Clock Input
- Support both 1.8V and 3.3V Input Voltage Level

HDMI Transmitter

- Compliant with HDMI1.4 and HDCP1.4
- Resolution Up to 4K 30Hz
- Programmable output swing and pre-emphasis
- 5V tolerance DDC/HPD I/Os

Miscellaneous

- 1.8V and 3.3V Power Supply
- Support 100KHz and 400KHz I2C slave
- Support up to 8-channel Audio Input
- Temperature Range: -40°C ~ +85°C
- Packaged in QFP80 12mm x 12mm and QFN64 9mm x

9mm

2. General Description

The LT8618SX is Lontium's low power version HDMI transmitter based on ClearEdge™ technology. It supports the 24-bit color depth HDMI 1.4 (High Definition Multimedia Interface) specification. They are fully backward compatible with Lontium's first generation HDMI transmitter LT8618EX. LT8618SX is a high performance, low power part that are specifically designed for HD-Digital cameras, HD-Digital Video Cameras, HD-PMP/MP4 Players, Cell phones, etc. The normal operation power is less than 100mA playing 24bit 1080P content, and the standby power is less than 2mA.

3. Applications

- DVD, BD
- Car Video Recorder
- PTV Box
- HD Sources

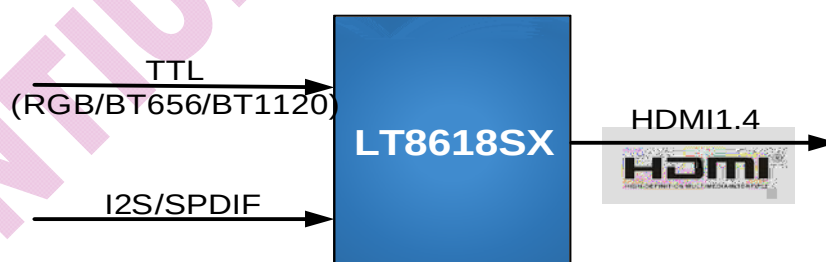


Figure 3.1 LT8618SX Typical Application Diagram

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