

LT8618SX --- Product Brief

Low Power HD-DVI1.4 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
- **HD-DVI Transmitter**
 - Compliant with HD-DVI1.4 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 HD-DVI transmitter based on ClearEdge™ technology. It supports the 24-bit color depth HD-DVI 1.4 specification. They are fully backward compatible with Lontium’s first generation HD-DVI 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

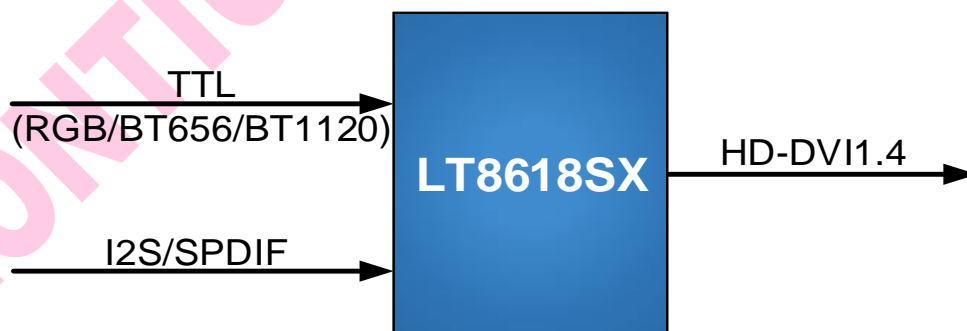


Figure 3.1 LT8618SX Typical Application Diagram

4. Ordering Information

Table 4.1 Ordering Information

Part Number	Product Version	Product Status	Operating Temperature Range	Package	Packing Method
LT8618SXA	U3	MP	-40°C to +85°C	LQFP80 (12*12)	Tray
LT8618SXB	U3	MP	-40°C to +85°C	QFN64 (9*9)	Tray

MP: Mass Production.

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