

LT8619C --- Product Brief

HDMI-TTL/LVDS Converter

Features

- **HDMI/Dual-Mode DP Input**
 - Compliant with DVI 1.0 and HDMI 1.4
 - Support Up to 1.65Gbps for DVI
 - Support Up to 3.0Gbps for HDMI
 - Support Resolution Up to 4Kx2K@30Hz
 - Support 8/10/12 bit per component(bpc)
 - Support HDCP Decryption
 - Support On-chip EDID
 - Support CEC
 - Receiver Equalization Up to 25 dB
- **Single/Dual-Port LVDS Transmitter**
 - Compatible with VESA and JEIDA standard
 - 1~2 Configurable Port
 - Support Port Swapping
 - Support Maximum Data Rate 1.5Gb/s/lane
 - Resolution Up to 4Kx2K@30Hz
 - Supports 6-bit, 8-bit Output
- **TTL Output**
 - Support 24-bit RGB and BT656/BT1120 Output
 - Support both SDR and DDR Output
 - Support up to 148.5MHz DDR or 300MHz SDR Output
 - Support both 1.8V and 3.3V Output Voltage Level
- **Video and Audio**
 - Programmable Color space conversion

- Advanced dithering logic for 6-bit color depth output
- Optional SPDIF output and 8-channel I2S output

- **Miscellaneous**

- Support 100KHz and 400KHz I2C slave
- External 25MHz Crystal Reference Clock
- Temperature Range: -40°C to +85°C
- Packaged in QFN76 9mm x 9mm

Description

The Lontium's LT8619C is a high performance HDMI/Dual-mode DP receiver chip based on ClearEdge™ Technology, compliant with the HDMI 1.4 specification. The TTL output can support RGB, BT656, BT1120 and the output resolution can support up to 4Kx2K@30Hz resolution.

For easy implement of a multi-media system, LT8619C supports 8-channel high quality I2S audio or SPDIF audio output.

Applications

- Car Entertainment
- TV
- Monitor
- Pico Projector
- Smart Projector
- Etc.

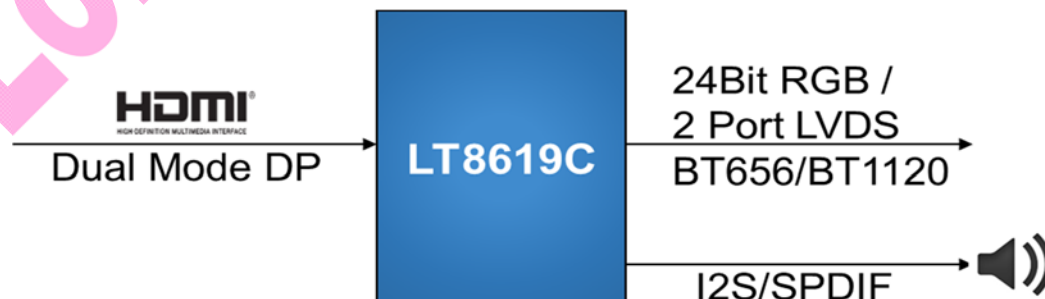


Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8619C	-40° C to +85° C	QFN76 (9*9)	Tray

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