

LT8619C ADVANCE INFORMATION - CONFIDENTIAL AND PROPRIETARY

## 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 ~ +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.

# **Application**

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



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