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# LT8619C --- Product Brief

## Features

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

- f* Advanced dithering logic for 6-bit color depth output
- f* Optional SPDIF output and 8-channel I2S output
- z Miscellaneous
  - f* Support 100KHz and 400KHz I2C slave
  - f* External 25MHz Crystal Reference Clock
  - f* Temperature Range: -40°C to +85°C
  - f* 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

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

Figure 1. Application Diagram

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# Ordering Information

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

