

LT8522X --- Product Brief

VGA to HD-DVI Converter

1. Features

- Direct interface to DVI 1.0 and HD-DVI V1.3 transmitter
- Compliance with DVI and HD-DVI up to 1.65Gbps
- HDCP encryption
- On-chip VGA HD-DVI EDID shadows
- Support resolution up to 1920x1200@60Hz (192M pixel clock)
- External IIC slave configuration interface
- Master I2C interface for DDC connection simplifies board layout and lowers cost
- Embedded audio PCM and SPDIF RX.
- Extensive power management for power savings.

2. General Description

The LT8522X is Lontium’s VGA to HD-DVI chip that supports VGA input and digital audio input and HD-DVI output based on ClearEdge™ technology. The HD-DVI output interface is compliant with the HD-DVI 1.3 specification. The HD-DVI output interface also supports HDCP encryption.

3. Applications

- Matrix Switch Box
- VGA to HD-DVI converter
- HD-DVI to VGA converter
- Etc.

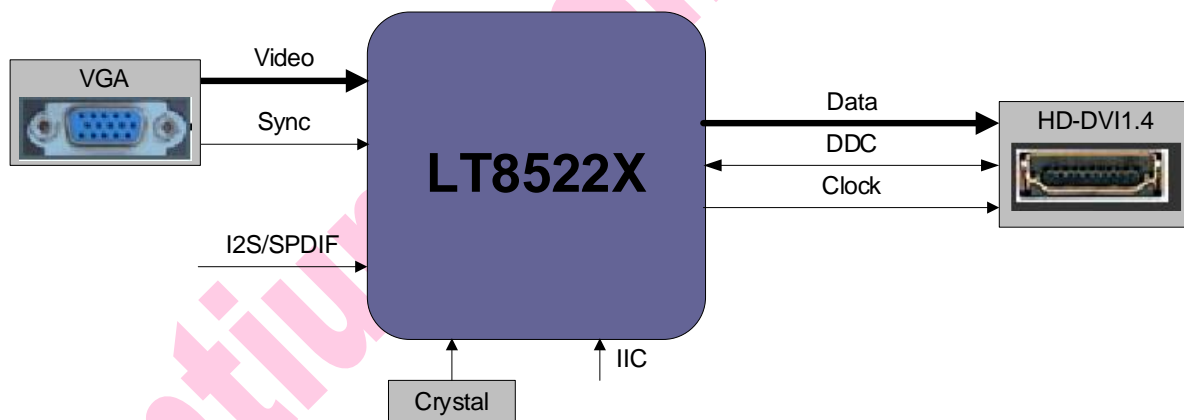


Figure 3.1 Application Diagram

4. Ordering Information

Table 4.1 Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8522X	-40° C to +85° C	QFN64 (9*9)	Tray

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