

# LT8631UX --- Product Brief

## HD-DVI2.0/1.4 3-In 1-Out Switch

### 1. Features

- 3 inputs, 1 output HD-DVI/DVI links
- HD-DVI 1.4/2.0/DVI 1.0 compliant
- Supports data rates up to 6Gbps
- RX side ODTs and management circuitry
- Integrated HPD switch, DDC switch, and +5V Power indicator switch, greatly lowering the cost and simplifying the manufacturing process
- Source/Sink connection detection for flexible system management
- I2C control supported
- Low added jitter
- 5V-tolerant DDC interfaces
- No external crystal is needed
- Adaptive equalization
- ACDC (Auxiliary and Control Data Channel) monitor

### 2. General Description

The LT8631UX HD-DVI2.0/1.4 Switch features a 3:1 switch compliant with HD-DVI2.0/1.4 specification, max

6Gbps high speed data rate, adaptive equalization RX input and pre-emphasized TX output to support long cable application, no XTAL on board to save BOM cost.

LT8631UX HD-DVI2.0/1.4 Switch automatically detects the cable loss, and adaptively optimize the equalization setting. It supports RX termination resistor calibration to further improve signal integrity.

LT8631UX support DDC/ACDC (Auxiliary and Control Data Channel) compliant to HD-DVI2.0/1.4 specification. The integrated DDC and HPD switches further lower the cost of system manufacture, and simplify the routing on the system board. This package is QFN64. It operate from -40°C to +85°C.

### 3. Applications

- Front panel buffer for advanced television (HDTV) sets
- Standalone switcher
- Multiple input displays
- Projectors
- AV receivers

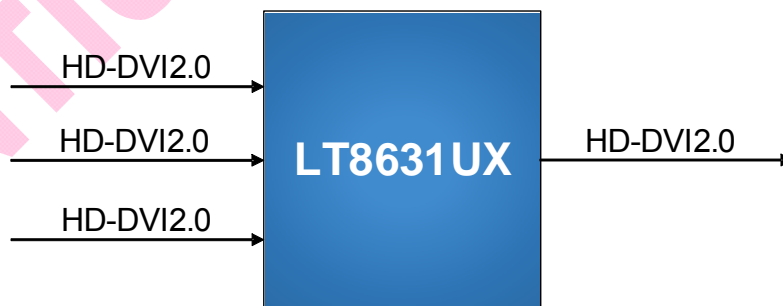


Figure 3.1 Application Diagram

## 4. Ordering Information

Table 4.1 Ordering Information

Product Name	Part Number	Product Status	Package	Operating Temperature Range	Packing Method	MPQ
LT8631UX	LT8631UX_U3	MP	QFN64 (9*9)	-40°C to +85°C	Tape and Reel	3000pcs

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