

LT8631UXE --- 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 LT8631UXE 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.

LT8631UXE 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.

LT8631UXE 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.

3. Applications

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

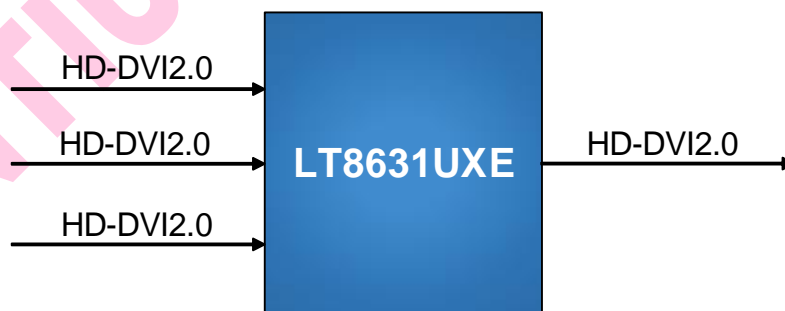
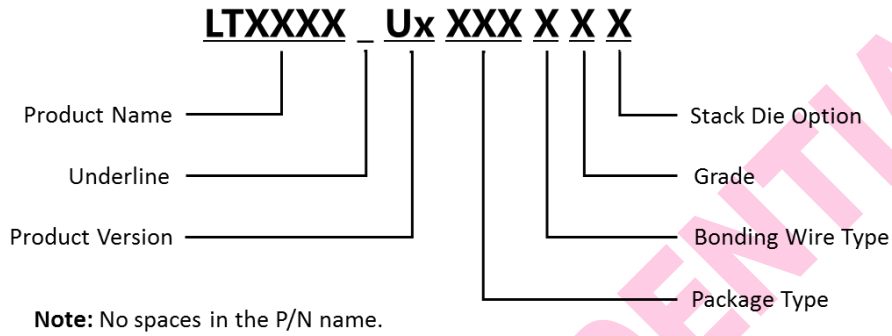


Figure 3.1 Application Diagram

4. Ordering Information

Table 4.1 Ordering Information

Product Name	Part Number	Product Status	Package	Bonding Wire	Grade	Operating Temperature Range	Stack Die Option	Packing Method	MPQ
LT8631UXE	LT8631UXE_U1Q05CEN	Preview	QFN64(9*9)Punch	Cu	E	-40°C to +85°C	N	Tape and Reel	3000pcs


Figure 4.1 Part Number Naming Rules

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