

LT8631UX --- Product Brief

HDMI2.0/1.4 3-In 1-Out Switch

Features

- 3 inputs, 1 output HDMI/DVI links
- HDMI 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
- SCDC monitor

Description

The Lontium LT8631UX HDMI2.0/1.4 Switch features a 3:1 switch compliant to HDMI2.0/1.4 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 HDMI2.0/1.4 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/SCDC compliant to HDMI2.0/1.4 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.

Applications

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



Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8631UX	-40°C to +85°C	QFN64 (9*9)	TBD

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