



LT8642UX --- Product Brief

HDMI2.0 4-In 2-Out Matrix Switch

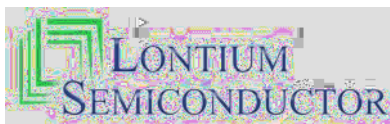
1. Features

● HDMI2.0 Receiver

- Compliant with HDMI2.0b, HDMI1.4 and DVI1.0
- Compliant with HDCP2.3, HDCP2.2 and HDCP1.4
- Data rate up to 6Gbps
- Support 4Kx2K@60Hz
- Adaptive receiver equalization
- Support data channel swap(arbitrarily) and polarity inversion(independent)
- AC and DC couple capable
- Support 3D and HDR
- Support 8/10/12-bit color depth
- Support TMDS descrambling for EMI/RFI reduction
- Support SCDC and CEC2.0
- Support ARC
- Integrated EDID shadow
- 5V tolerance DDC/HPD I/Os

● HDMI2.0 Transmitter

- Compliant with HDMI2.0b, HDMI1.4 and DVI1.0
- Compliant with HDCP2.3, HDCP2.2 and HDCP1.4
- Data rate up to 6Gbps
- Support 4Kx2K@60Hz
- Programmable transmitter swing and pre-emphasis
- Support channel swap(arbitrarily) and polarity inversion(independent)
- DC couple capable
- Downstream receiver sensing
- Support 3D and HDR
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LT8642UX ADVANCE INFORMATION – CONFIDENTIAL AND PROPRIETARY

operates from -40°C to $+85^{\circ}\text{C}$.

3. Applications

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



Figure 3.1 Application Diagram

4. Ordering Information

Table 4.1 Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8642UX	-40°C to $+85^{\circ}\text{C}$	QFN128 (14*14)	Tray

