

LT86104UX --- Product Brief

HDMI2.0 1-In 4-Out Splitter

1. Features

- HDMI 1.4/2.0 specifications compliant
- Support 4Kx2K extended resolution formats up to 6.0Gbps data rate
- Adaptive equalization and de-emphasis to compensate long cable losses
- Integrated EDID shadow RAM and embedded EDID
- 5V-tolerant DDC interfaces
- 1 HDMI input port, up to 4 HDMI output ports
- Unlimited cascading for more output ports or signal repeating
- Jitter cleaning PLL for better performance
- No external crystal is needed
- 1.35V and 3.3V power supply

2. General Description

The Lontium LT86104UX HDMI2.0 Splitter features a 1:4

splitter 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.

LT86104UX HDMI2.0 Splitter automatically detect the cable loss, and adaptively optimize the equalization setting. The CDR cleans the input data jitter, make it suitable for long cable and cascade application. It supports RX termination resistor calibration to further improve signal integrity.

LT86104UX support DDC/SCDC compliant to HDMI2.0/1.4 specification. This package is QFN128 14mm x14mm. It operates from -40°C to +85°C.

3. Applications

- Multiple display/TV support
- HDMI/DVI signal splitting/repeating

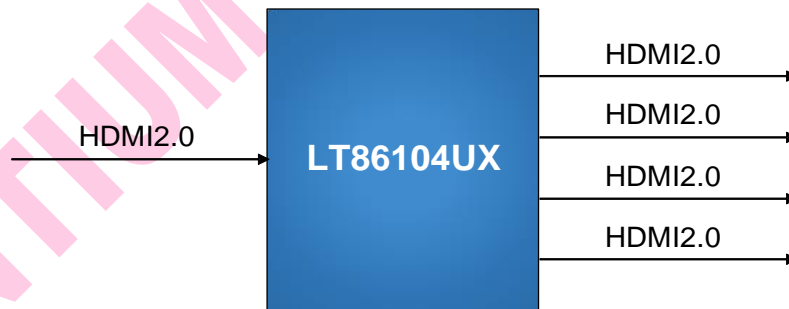


Figure 3.1 Application Diagram

4. Ordering Information

Table 4.1 Ordering Information

Part Number	Product Status	Operating Temperature Range	Package	Packing Method	MPQ
LT86104UX_U5	MP	-40°C to +85°C	QFN128 (14*14)	Tray	1190pcs

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