

LT86104UX --- Product Brief

HDMI2.0 1-In 4-Out Splitter

Features

- HDMI 1.4/2.0 specifications compliant
- Support 3D video formats and 4Kx2K extended resolution formats up to 6.0Gbps data rate
- Adaptive equalization and de-emphasis to compensate long cable losses
- ODTs and calibration
- 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
- DC/AC coupled signal input/output
- No external crystal is needed
- 1.2V and 3.3V power supply

Description

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, internal TX lane swap for flexible PCB routing .

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 support 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 operate from -40°C to +85°C.

Applications

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

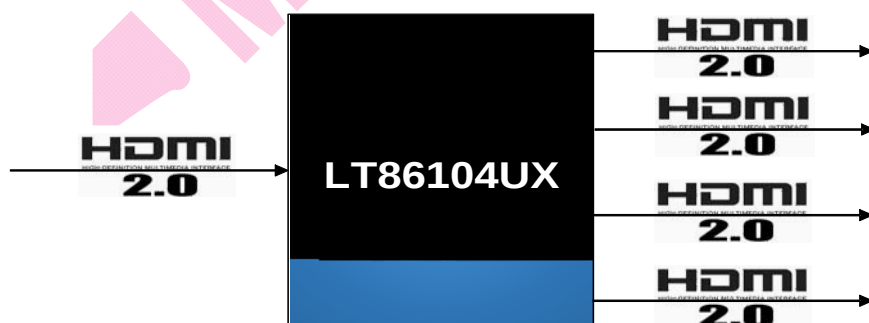


Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
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LT86104UX

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