

LT86104EX - HDMI/DVI 1:4 Splitter

1. General Description

The LT86104EX is Lontium's 3rd generation 4-port HDMI/DVI splitter which can repeat one HDMI/DVI signal to 4 HDMI/DVI signal sets, support up to 4 different HDMI/DVI receiving/display terminals. Based on ClearedEdge™ technology, and the data rate up to 3.4Gbps per channel, it supports 12-bit deep color full HD, full 3D and 4Kx2K video, compliant with the HDMI 1.4/DVI 1.0.

Fabricated in an advanced CMOS process, the LT86104EX is provided in a 128-lead LQFP package and is specified over the 0°C to +70°C temperature range.

2. FEATURES

- HDMI 1.4/DVI 1.0 specifications compliant
- Support 3D video formats and 4Kx2K extended resolution formats up to 3.4Gbps data rate
- Adaptive equalization and de-emphasis to compensate long cable losses
- ODTs and calibration
- Integrated HDCP engine compliant with HDCP 1.4 specification
- Supports HDCP repeating
- Pre-programmed HDCP key sets or external EEPROM stored key sets
- Integrated programmable timers to reduce the external MCU overhead
- 5V-tolerant DDC interfaces
- 1 HDMI/DVI input port, up to 4 HDMI/DVI output ports
- Unlimited cascading for more output ports or signal repeating
- 128-pin LQFP package

3. APPLICATIONS

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

