

LT86104 --- Product Brief

HDMI/DVI/DisplayPort 1:4 Splitter

Features

- HDMI 1.3/DVI 1.0/DisplayPort 1.1 specifications compliant
- Analog only
- Dual control mode: Pin Control Mode and I2C Control Mode
- Integrated DDC/AUX/HPD switches
- Auto/manual DDC/AUX/HPD switching
- Integrated 17 programmable timers to reduce the external MCU overhead
- On-chip RX/TX side terminations and calibration
- Wide frequency range: 25MHz – 225MHz
- Support 8-bit, 10-bit deep color up to 1080P
- 1 HDMI/DVI/DisplayPort input port, up to 4 HDMI/DVI/DisplayPort output ports
- 128-pin LQFP package

Description

The LT86104 is Lontium's second generation 4-Port HDMI/DVI/DisplayPort splitter that can repeat/re-transmitter one HDMI/DVI/DisplayPort signals up to 4 HDMI/DVI/DisplayPort signal sets, support up to 4 different HDMI/DVI/DisplayPort receiving/display terminals. Based on ClearedEdge™ technology, it is compliant with the HDMI 1.3/DVI 1.0/DisplayPort 1.1 specifications.

The LT86104 is offered in a 128-lead LQFP package. With on-chip RX/TX side terminations and integrated DDC/AUX/HPD switches, it saves several components on the board for area and cost reduction. The LT86104 also contains 17 on-chip programmable timers for HDCP handling to reduce the external MCU overhead. It is a perfect replacement of EP9134 chipset.

Application

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

Block Diagram

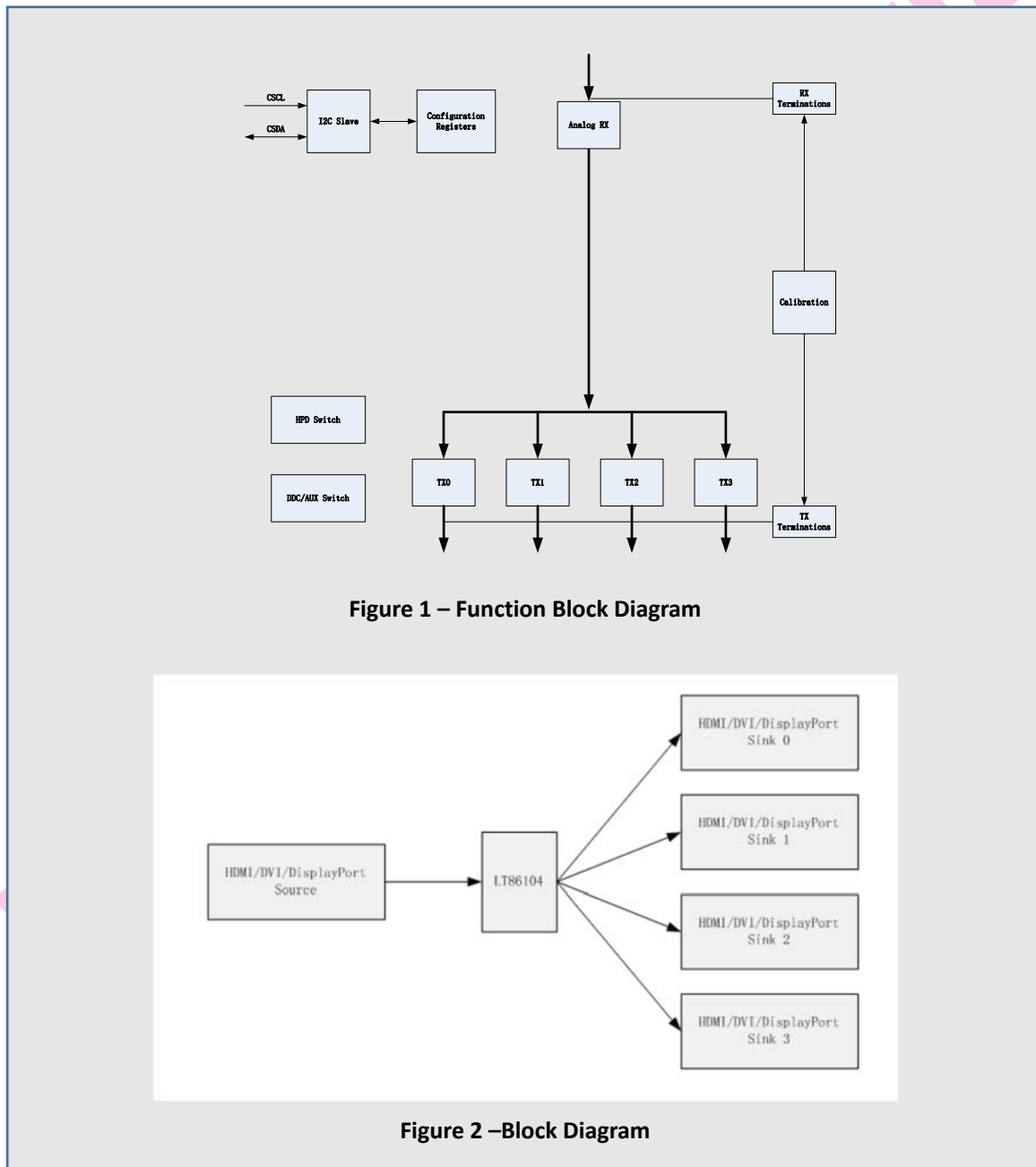


Figure 1 – Function Block Diagram

Figure 2 –Block Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT86014	0 to 70°C	LQFP128	Tape and Reel

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