

LT84104M --- Product Brief

4-to-1 Analog Switch

1. Features

- DisplayPort 1.2/1.4, HDMI 1.4/2.0/2.1, USB3.2 Gen2 Electrical standard compatible
- Supporting high-speed data, DDC with HPD, AUX 4:1 and 1:4 channel mux/demux
- Data rate: 12Gbps max for high-speed channels
- -4 dB insertion loss for high-speed channels @6GHz
- Ultra-low-power architecture
- Single power supply VCC operating range 3.3V +/-10%
- Integrated 100/400kHz I2C slave

2. General Description

The LT84104M is a high performance Analog switch with wide voltage range capability. It supports DisplayPort 1.2/1.4, HDMI 1.4/2.0/2.1, Bi-directional USB3.2 Gen2

switching differential signal, and emerging and proprietary standards.

The LT84104M can pass high-speed signals to 1.38V peak to peak differential, with a common-mode voltage from 2V to VCC or 0V for TMDS signal. The wide voltage range allows DC-coupled or AC-coupled multi-standard operation.

In addition to four high-speed ports, the LT84104M also switches the DDC and HPD signals or AUX and HPD signals using the DDC/AUX and HPD channel mux/demux.

3. Applications

- DisplayPort video signals switching
- HDMI video signals switching

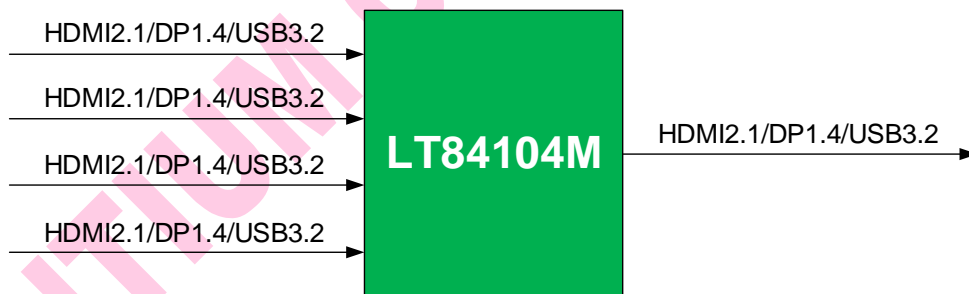
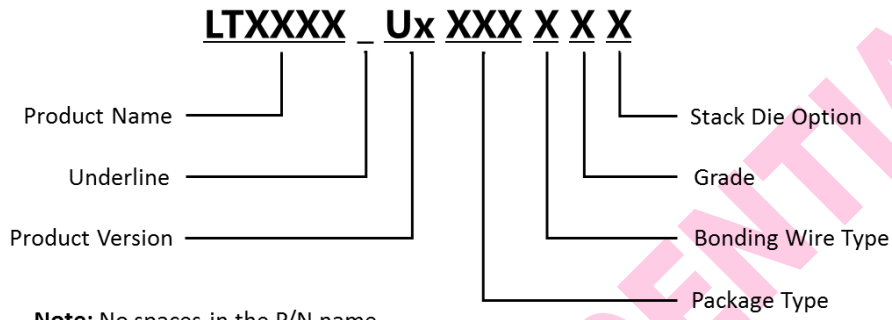


Figure 3.1 Application Diagram

4. Ordering Information

Table 4.1 Ordering Information

Product Name	Part Number	Product Status	Package	Bonding Wire	Grade	Operating Temperature Range	Stack Die Option	Packing Method	MPQ
LT84104M	LT84104M_U1Q21CEN	Preview	QFN68(5*8)Saw	Cu	E	TBD	N	Tray	TBD


Figure 4.1 Part Number Naming Rules

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