

# LT84102M --- Product Brief

## 2-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 2:1 and 1:2 channel mux/demux
- Data rate: 12Gbps max for high-speed channels
- -4 dB insertion loss for high-speed channels @6GHz
- Low-power architecture
- Single power supply VCC operating range 3.3V +/-10%
- Integrated 100/400kHz I2C slave

### 2. General Description

The LT84102M 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 LT84102M 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 two high-speed ports, the LT84102M 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
- USB3.2 Gen2+2 DisplayPort lanes switching

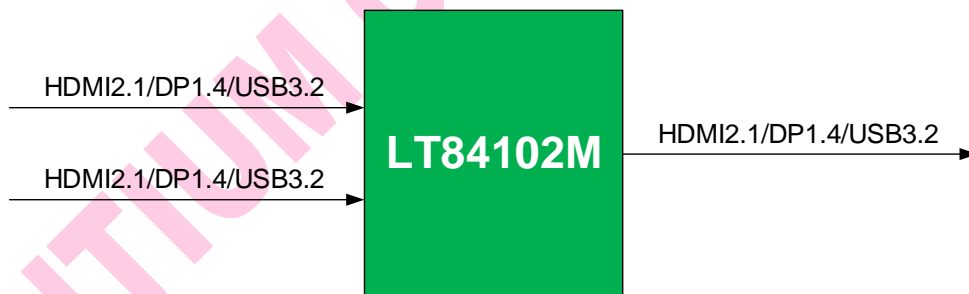


Figure 3.1 Application Diagram

## 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
LT84102M	LT84102M_U1Q25CEN	Preview	QFN68(4*5)Saw	Cu	E	TBD	N	Tray	TBD

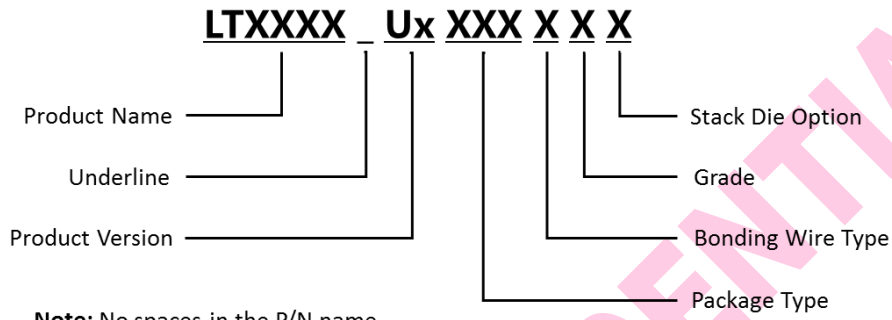


Figure 4.1 Part Number Naming Rules

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