

LT84102M --- Product Brief

2-to-1 Analog Switch

1. Features

- DisplayPort 1.2/1.4, HDMI 1.4/2.0/2.1, USB3.2 Gen1 Electrical standard compatible
- Supporting high-speed data, DDC with HPD, AUX 2:1 and 1:2 channel mux/demux
- Data rate: 8.1Gbps max for high-speed channels
- -1.5 dB insertion loss for high-speed channels @4.05GHz
- 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 Gen1

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 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 Gen1+2 DisplayPort lanes switching

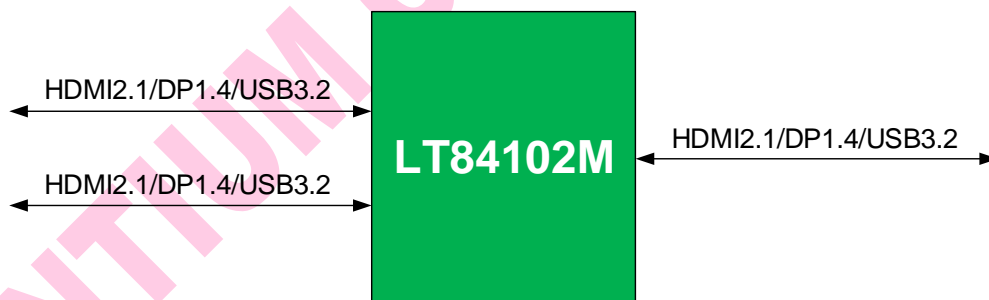


Figure 3.1 Application Diagram

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_U1Q20CEN	Preview	QFN48(4.2*5.3)Saw	Cu	E	-40°C to +85°C	N	Tray	4900pcs

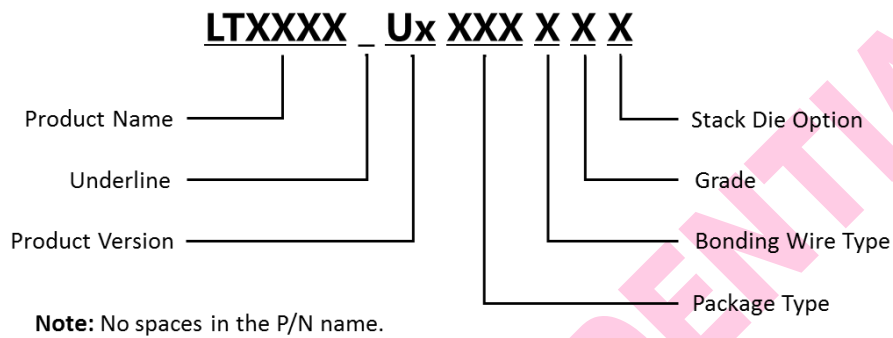


Figure 4.1 Part Number Naming Rules

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