

# LT87101UX --- Product Brief

## Dual-Port DP2.1 10Gbps Redriver

### 1. Features

- Support DP/eDP 1.62Gbps to 10Gbps Data Rate
- Support 1 forward port and 1 backward port
- Data lane polarity swappable
- Support CTLE up to 27 dB@10Gbps
- Programmable de-emphasis up to 8 dB
- Up to 1.2V output swing
- Programmable through I2C/SMBus interface
- Selectable 2.5-V or 3.3-V supply voltage
- Support up to 400KHz I2C/SMBus slave

### 2. General Description

LT87101UX is a dual-port redriver with signal conditioning suitable for DP2.1 applications with data rates up to 10 Gbps. The continuous time linear equalizer (CTLE) of the

receiver provides adjustable boost to compensate up to 27 dB insertion-loss at 5 GHz. The transmitter features a programmable amplitude voltage level up to 1200 mVpp and de-emphasis up to 8 dB.

In order to save power consumption, LT87101UX can work well from 1.8V to 2.5V power supply in external LDO mode.

LT87101UX is fabricated in advanced CMOS process and implemented in 10mm x 5.5mm QFN54 package.

### 3. Applications

- Active Cables
- Backplane Extension
- Tablets
- Notebooks
- Docking

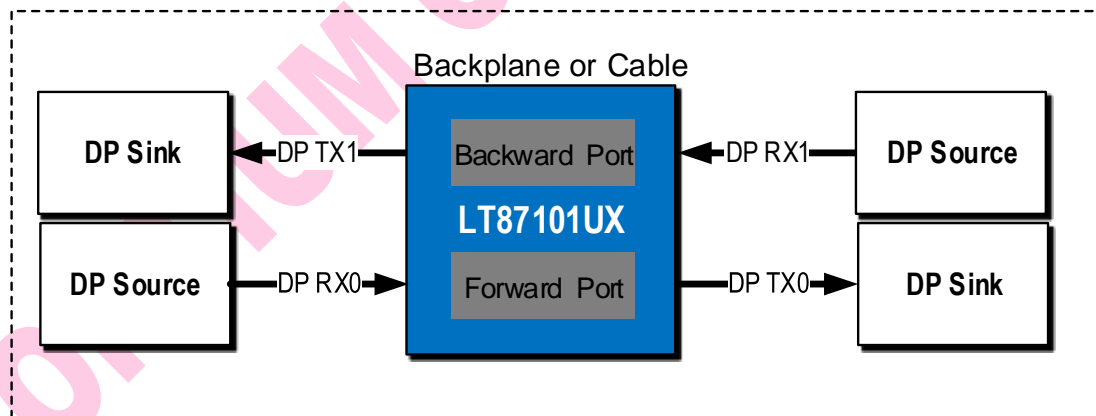


Figure 3.1 Typical Application Diagram

## 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
LT87101UX	LT87101UX_U2Q08CEN	MP	QFN54 (10*5.5)Saw	Cu	E	-40℃ to +85℃	N	Tray	1560pcs

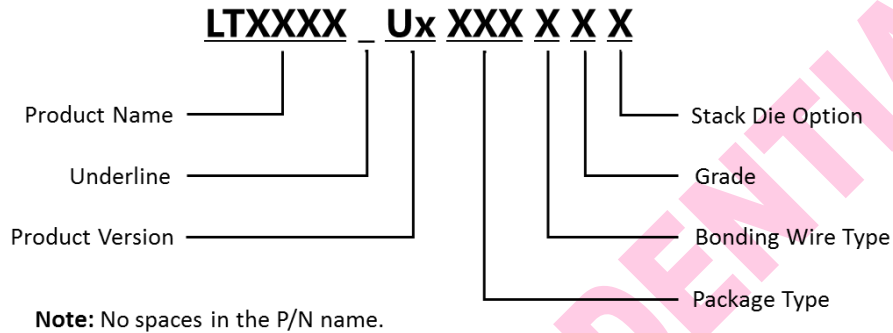


Figure 4.1 Part Number Naming Rules

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