

LT8718 --- Product Brief

TTL to DP

1. Features

- **TTL Input**
 - Support up to 24-bit RGB/YUV and BT656/BT1120 Input
 - Support SDR and DDR Data Sampling
 - Support Resolution up to 4Kx2K@30Hz for RGB
- **DP1.2 Transmitter**
 - Compliant to VESA DP1.2 Standard
 - Support 4 Lanes with 1.62Gbps (RBR), 2.7Gbps (HBR) or 5.4Gbps (HBR2) Data Rate
 - Support HDCP1.3 Encryption
 - Support up to 24-bit RGB Data Format
 - Support Resolution up to 4Kx2K@30Hz for RGB
 - Build-in Pattern Generation
 - Support Hot-Plug Detect
 - Support Backlight Control for Screen Application
 - Optional SSC 0.5% Down-Spreading Output
 - Configurable Output Swing Internal Rterm Calibration with Less than 5% Error
- **Audio Input**
 - Support SPDIF or up to 8-CH I2S Audio Input

- **Miscellaneous**

- 1.8V/3.3V Dual Supply Power
- External 25MHz Crystal Reference Clock
- Temperature Range: -40°C to +85°C
- Packaged in 10mm x 10mm QFN88

2. General Description

The Lontium LT8718 is TTL to DP converter. The input supports both normal 24-bit RGB/YUV and BT656/BT1120 mode under SDR or DDR sampling. The maximum resolution is up to 4Kx2K@30Hz for RGB input. The LT8718 is fabricated in advanced CMOS process and implemented in a small outline 10mmx10mm QFN88. This package is RoHS compliant and specified to operate from -40°C to +85°C.

3. Applications

- Mobile systems
- Cellular handsets
- Digital video cameras
- Digital still cameras

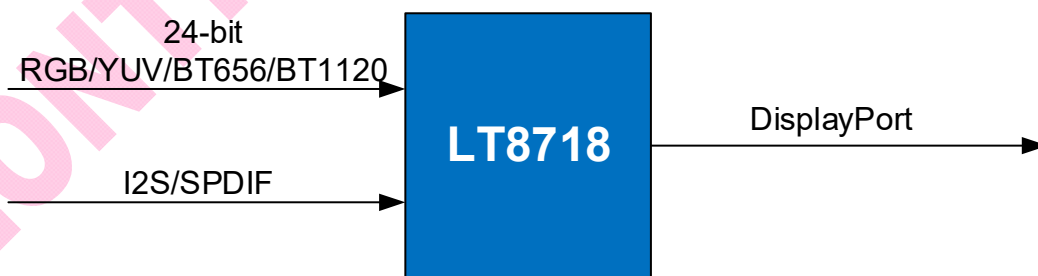


Figure 3.1 Application Diagrams

4. Ordering Information

Table 4.1 Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method	MPQ
LT8718	-40°C to +85°C	QFN88 (10*10)	Tray	1680pcs

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