

THC63LVD1027D

Dual Link LVDS Repeater

General Description

The THC63LVD1027D LVDS(Low Voltage Differential Signaling) repeater is designed to support pixel data transmission between Host and Flat Panel Display up to WUXGA resolution.

THC63LVD1027D receives the dual link LVDS data streams and transmits the LVDS data through various line rate conversion modes, Dual Link Input / Dual Link Output, Single Link Input / Dual Link Output, and Dual Link Input / Single Link Output.

Features

- 30bits/pixel dual link LVDS Receiver
- 30bits/pixel dual Link LVDS Transmitter
- Operating Temperature Range : -40°C~105°C (*)
- Wide LVDS input skew margin: $\pm 480\text{ps}$ at 75MHz
- Accurate LVDS output timing: $\pm 250\text{ps}$ at 75MHz
- Reduced swing LVDS output mode supported to suppress the system EMI
- Various line rate conversion modes supported
Dual link input / Dual link output [clkout=1x clkin]
Single link input / Dual link output [clkout=1/2x clkin]
Dual link input / Single link output [clkout=2x clkin]
- Distribution (signal duplication) mode supported
- Power down mode supported
- 3.3V single voltage power supply
- 64pin TSSOP with Exposed PAD (0.5mm lead pitch)

(*) Refer to Figure 1. Block Diagram

Block Diagram

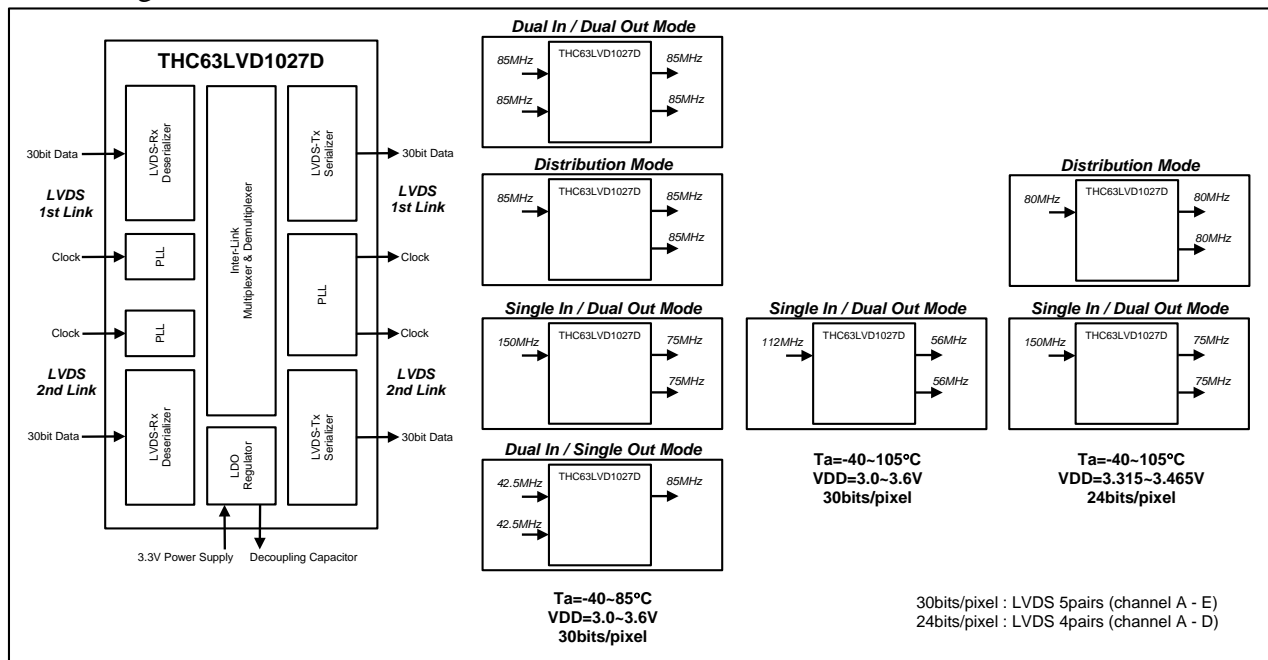


Figure 1. Block Diagram

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10. The product or peripheral parts may be damaged by a surge in voltage over the absolute maximum ratings or malfunction, if pins of the product are shorted by such as foreign substance. The damages may cause a smoking and ignition. Therefore, you are encouraged to implement safety measures by adding protection devices, such as fuses.

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