

LT8668SX-D --- Product Brief

High Definition Display Controller

1. Features

° USB Type-C

- Compliant with VESA DisplayPort alt mode on USB Type-C standard 1.0
- Compliant with USB power delivery specification 3.0
- Compliant with USB Type-C cable and connector specification 1.3
- Built-in dual CC controllers for charger and normal communication
- Data roles supported: DFP, UFP and DRP
- Support HDCP 1.4/2.2/2.3
- Support HDCP repeater
- Support 4K@60Hz
- Support HDR10
- Support CEC

° DP1.2a Transmitter

- Compliant with DisplayPort specification 1.2a for 1.62Gbps, 2.7Gbps, 5.4Gbps
- Compliant Embedded DisplayPort specification

version 1.4

- Support DisplayPort 1/2/4 lanes

- Support HDCP 1.3/2.2/2.3

- Support HDCP repeater

- Support 4K@60Hz

- Support HDR10

- Support ASSR for eDP

° HDMI2.0 Transmitter

- Compliant with HDMI2.0b, HDMI1.4 and DVI1.0

- Data rate up to 6Gbps

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- Support HDCP 1.4/2.2/2.3

- Support HDCP repeater

- Support 4K@60Hz

- Support HDR10

- Support CEC

° Four-Port LVDS Transmitter

- Compatible with VESA and JEIDA standard

- Support 1/2/4 configurable ports

- 1 Clock lane and 3/4/5 configurable data lanes per port

- Data rate up to 1.2Gbps per data lane

- Support 4K@60Hz

- Programmable transmitter swing

- Support SSC

° Four-Port MIPI® DSI/CSI Transmitter

- Compliant with D-PHY1.2 & DSI 1.3 & CSI-2 1.3, 1 clock lane, and 1/2/3/4 configurable data lanes, and 8

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