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LT8668SX --- 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 Tyn㔗n㖱‏넧n㕏i Tntѳ Tnpntцt ԐԐࠠ䀰T

communication
• Data roles supported: DFP, UFP and DRP
• Pա腲某쀈 Data rate up to 6Gbps
• 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
• 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 configurable data lanes only for CSI, 2.5Gbps per data lane
• Compliant with C-PHY1.0 & DSI-2 1.0 & CSI-2 2.0, 1/2/3 configurable data lanes, 5.7Gbps per data lane
• Support 1/2/4 configurable ports and only 1 port for CSI D-PHY 8lanes mode
• Support 4K@60Hz
• Support overlap mode
• DSI Support 16/20/24-bit YCbCr4:2:2, 24/30-bit RGB