



LT8918H --- Product Brief

HDMI to MIPI DSI/CSI-2

Features

● HDMI/Dual-Mode DP Input

- Compliant with DVI 1.0 and HDMI 1.4
- Support Up to 1.65Gbps for DVI
- Support Up to 3.4Gbps for HDMI
- Support Resolution Up to 4Kx2K@30Hz
- Support 8/10/12 bit per component(bpc)
- Support HDCP Decryption
- Support On-chip EDID

● Single-Port MIPI DSI Transmitter

- Compliant with DCS1.02, D-PHY1.1 & DSI1.02
- 1 Clock Lane and 1~4 Configurable Data Lanes
- 80Mb/s~1.5Gbps per Data Lane
- Resolution Up to 1080P 60Hz
- Data Lane and Polarity Swapping
- Both Non-Burst and Burst Video Mode Supported
- Command Mode through Lane-0 Supported
- Support RGB666, Loosely RGB666, RGB888, RGB565, 16-bit YCbCr4:2:2, 24-bit YCbCr 4:2:2 Video Format

● Single-Port MIPI CSI-2 Transmitter

- Compliant with D-PHY1.1 & CSI-2 1.0
- 1 Clock Lane and 1~4 Configurable Data Lanes
- 80Mbps~1.5Gbps per Data Lane
- Resolution Up to 1080P 60Hz
- Data Lane and Polarity Swapping
- Support RGB565, RGB666, RGB888, 8-bit YUV422

Video Format

● Miscellaneous

- Support 100KHz and 400KHz I2C slave
- Support SPI slave
- External 25MHz Crystal Reference Clock
- Temperature Range: -40°C to +85°C

Description

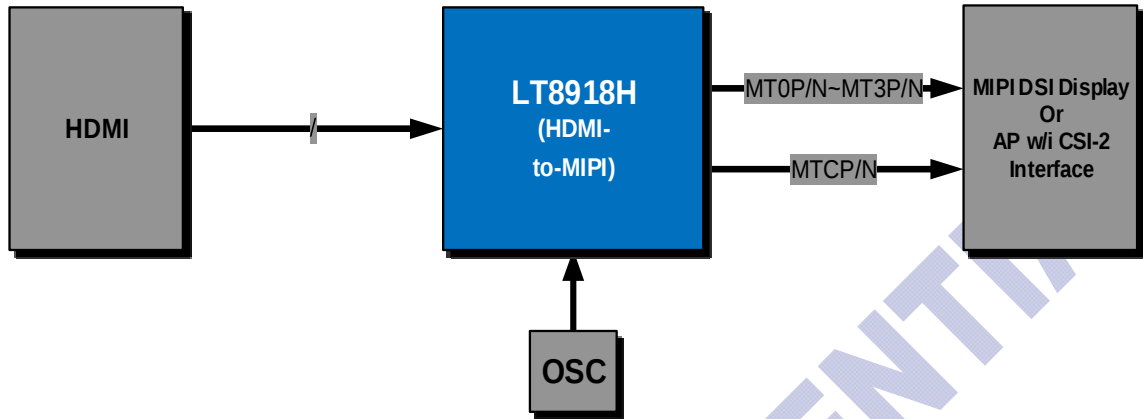
The Lontium LT8918H is a high performance HDMI to MIPI DSI/CSI-2 bridge chip between AP and mobile display panel or camera .

For MIPI DSI/CSI-2 output, LT8918H features a single port MIPI DSI or CSI-2 transmitter with 1 high-speed clock lane and 1~4 high-speed data lanes operating at maximum 1.5Gb/s/lane, which can support a total bandwidth of up to 6Gbps. LT8918H supports both Non-Burst and Burst DSI video data transferring, as well as Command Mode through Lane-0.

Applications

- Mobile systems
- Cellular handsets
- Digital video cameras
- Digital still cameras
- Tablet PC, Notebook PC
- Car Display and Camera System

Mobile System





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