

LT6911UXB ADVANCE

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MICO

Miscellaneous

CSC: RGB <-> YUV444 <-> YUV422
 Integrated CEC Controller
 External oscillator
 Integrated microprocessor
 Embedded SPI flash for firmware and HDCP keys
 GPIOs for system controls
 Integrated 100/400kHz I2C slave
 Firmware update through SPI or I2C interface
 Power supply: 3.3V for I/O and 1.2V for core
 ESD 4kV HBM
 Temperature Range: -40 ~ +85
 Package: BGA144(7mm*7mm)
 Pin compatible with LT6911B

Also HDCP2.2 is supported for data decryption.

For MIPI DSI/CSI output, LT6911UXB features configurable single-port, dual-port or quad-port MIPI DSI/CSI with 1 high-speed clock lane, and 1~4 high-speed data lanes operating at maximum 2Gbps/lane, which can support a total bandwidth of up to 32Gbps. LT6911UXB supports burst mode DSI video data transferring, also supports flexible video data mapping path. Integrated DSC encoder implements up to 3:1 visually lossless compression which reduces bandwidth requirement for UHD video transport, also power consumption and EMI.

Two digital audio output interfaces are available, I2S and SPDIF. The I2S interface supports 8-ch LPCM and the SPDIF interface supports 2-ch LPCM or compressed audio, both at maximum 192kHz sample rate.

The device is capable of automatic operation which is enabled by an integrated microprocessor that uses an embedded SPI flash for firmware storage. System control is also available through the configuration I2C slave interface.

Description

The LT6911UXB is a high performance HDMI2.0 to MIPI DSI/CSI converter for VR, Smart phone, Display applications.

The HDMI2.0 input supports data rate up to 6Gbps which provides sufficient bandwidth for 4k@60Hz video.

Applications

Mobile system
 Display
 VR

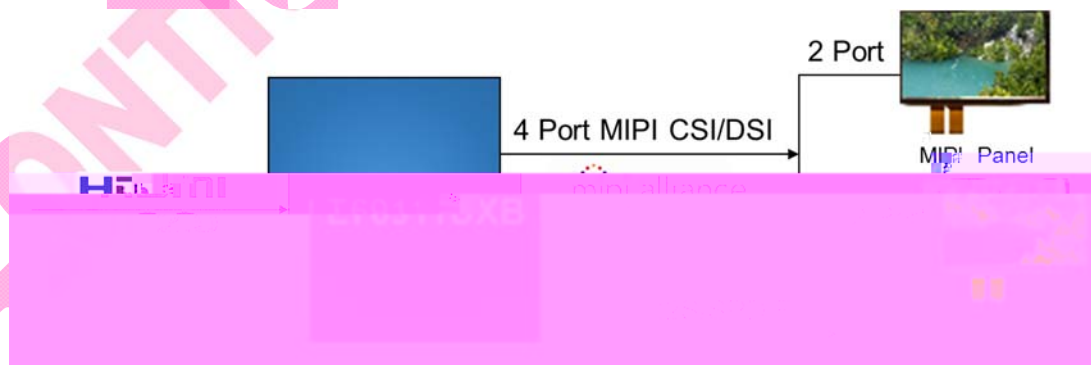


Figure1. Application Diagram

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