



SiI9292 MHL™-to-HDMI Bridge

MHL-to-HDMI bridge device for HD audio and video connectivity

The SiI9292 enables the design of low-power, MHL-to-HDMI accessories such as docking stations, converters and adapters, enabling HD audio and video connectivity between mobile devices enabled with MHL and HDTVs and displays with HDMI inputs.

Applications

- ◆ MHL docking stations
- ◆ MHL cable accessories

Key Features

- ◆ MHL input
- ◆ HDMI output
- ◆ Low BOM cost

Benefits Summary

- ◆ Low-power consumption
- ◆ Small package

Industry-Standard Compliance

- ◆ HDMI 1.3a
- ◆ MHL

Digital Audio/Video Output

- ◆ Integrated TMDS core
- ◆ HDMI output
- ◆ HDMI output resolution support - from 25 MHz – 75MHz, up to 1080p@ 24/30 Hz

Digital Audio/Video Input

- ◆ Integrated TMDS core
- ◆ MHL input
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Single-Wire Control Bus

Consumer Electronics Control (CEC) & DDC

- ◆ Support for DDC and CEC signals

System Operation

- ◆ Optional software control for smart cable/dongle applications via 1 MHz local I²C bus
- ◆ Flexible interrupt registers and an interrupt pin

Power Management

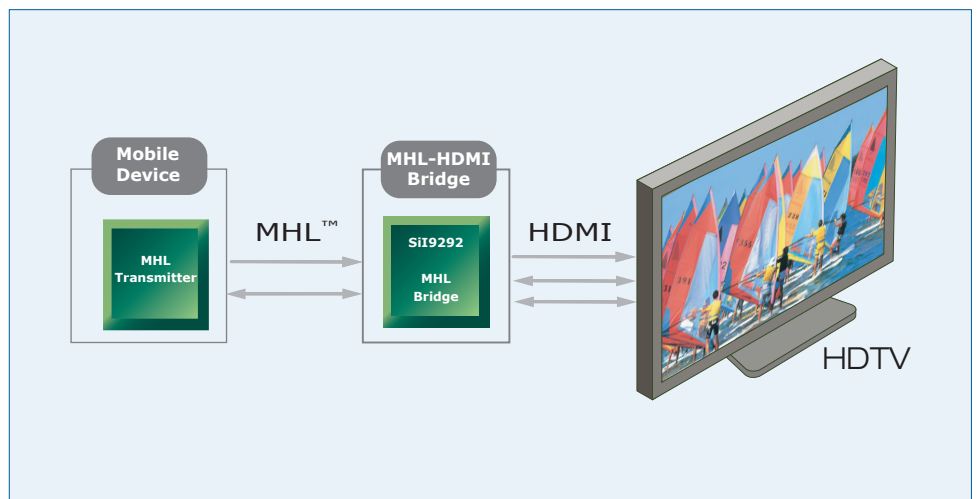
- ◆ 1.2 V and 3.3 V rails for low-power operation
- ◆ Flexible power-down modes

Available Packages

- ◆ 40-pin QFN
- ◆ 6 mm x 6 mm footprint

Operating Range

- ◆ -20°C to +85°C extended temperature range support



Enhancing the connected HD experience

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