

SiI8334 MHL™ Transmitter

HDMI-to-MHL transmitter for HD audio and video

The SiI8334 is a low-power MHL (Mobile High-Definition Link) transmitter designed for power-sensitive consumer electronics devices such as mobile phones, digital cameras, portable media players, tablets and HD camcorders. The SiI8334 delivers a cost-effective, low pin count connectivity solution for delivering HD content using existing connections.

Applications

- ◆ Mobile phones
- ◆ Tablets
- ◆ Digital cameras
- ◆ Portable media players (PMPs)
- ◆ HD camcorders

Key Features

- ◆ HD audio/video over 5 pins
- ◆ HDMI input
- ◆ Low-power consumption

Benefits Summary

- ◆ Connectivity to HDTVs from mobile devices using existing connections
- ◆ Low BOM cost

Supported Standards

- ◆ MHL 1.1
- ◆ HDMI 1.4a
- ◆ I²C 3.0

Digital Audio/Video Outputs

- ◆ Integrated TMDS core
- ◆ MHL output resolution support up to 1080p

Digital Audio/Video Input

- ◆ Integrated TMDS core
- ◆ HDMI input resolution support – up to 1080p

Integrated High-Speed Switch

- ◆ Reduces BOM cost and PCB area

Single-Wire Control Bus

System Operation

- ◆ 400kHz local I²C bus

Power Management

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

Package

- ◆ 49-ball VFBGA
- ◆ 4.0 mm x 4.0 mm footprint, 0.5mm ball pitch

Operating Range

- ◆ -30 °C to +85 °C extended temperature support

