



SiI9244 MHL™ Transmitter

MHL transmitter for HD audio and video

The SiI9244 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 and HD camcorders. The SiI9244 enables a low-cost, low-pin count connectivity solution for delivering HD content without the need for an additional connector.

Applications

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

Key Features

- ◆ HD audio/video over mobile connectors
- ◆ HDMI input
- ◆ Low-power consumption

Benefits Summary

- ◆ Connectivity to HDTVs from mobile devices without needing an additional connector
- ◆ Low BOM cost

Industry-Standard Compliance

- ◆ HDMI 1.3a
- ◆ MHL

Digital Audio/Video Output

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

Digital Audio/Video Input

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

Single-Wire Control Bus

Integrated Hardware Arbitration Logic

- ◆ Offloads local CPU overhead

System Operation

- ◆ 1 MHz local I²C bus

Power Management

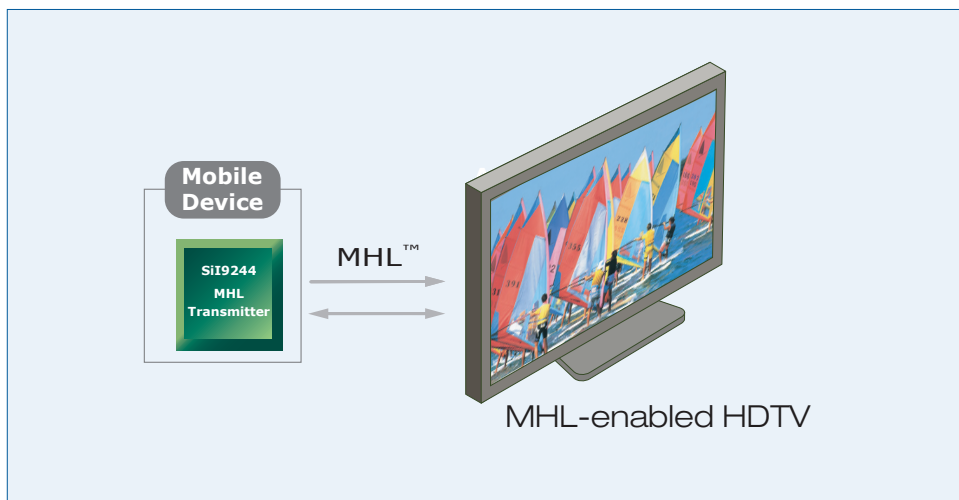
- ◆ 1.8 V, 1.2 V and 3.3 V rails for low-power operation
- ◆ Flexible power-down modes

Package

- ◆ 49-ball VFBGA
- ◆ 3.5 mm x 3.5 mm footprint, 0.4mm ball pitch

Operating Range

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



Enhancing the connected HD experience

1060 E. Arques Ave., Sunnyvale, CA 94085 T 408.616.4000 F 408.830.9530 www.siliconimage.com

© 2010 Silicon Image, Inc. All rights reserved. Silicon Image, the Silicon Image logo, InstaPort, and the InstaPort logo are trademarks or registered trademarks of Silicon Image, Inc. in the United States and/or other countries. HDMI, the HDMI logo, and High-Definition Multimedia Interface, are trademarks or registered trademarks in the United States and/or other countries and are used under license from HDMI Licensing, LLC. MHL, the MHL logo, Mobile High-Definition Link, are trademarks or registered trademarks in the United States and/or other countries and are used under license from MHL, LLC. All other trademarks are the property of their respective owner in the United States and/or other countries. Product specifications are subject to change without notice. Printed in USA 10/10 SiI PB-1079