

PanelLink®

SiI 9030 Features PanelLink Transmitter

Industry-Standard Compliance

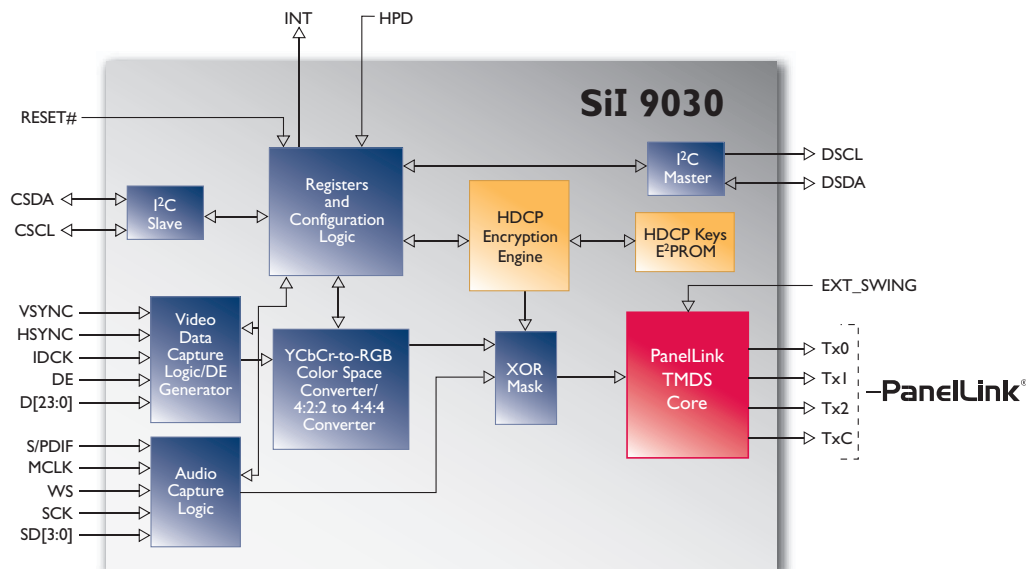
- HDMI 1.0
- DVI 1.0
- EIA/CEA-861B
- HDCP 1.1

Digital Video Output

- Integrated PanelLink® core
- Supports DTV (480i/576i/480p/576p/720p/1080i/1080p) and PC (VGA/XGA/SXGA/WSXGA) resolutions
- Flexible video interface supports DVD and HD MPEG decoders
 - 12/24-bit RGBYCbCr 4:4:4
 - 16/20/24-bit YCbCr 4:2:2
 - 8/10/12-bit YCbCr 4:2:2 (ITU-R BT.601 & BT.656)
- Integrated YCbCr ↔ RGB color space conversion
- 4:2:2 ↔ 4:4:4 up-converter
- Programmable Data Enable (DE) generator

Digital Audio Output

- DVD-Audio support thru 4xI²S inputs
- Supports 2-channel 192kHz or 8-channel 96kHz
- Supports IEC60958 2-channel PCM or IEC61937 compressed audio (Dolby Digital, DTS, etc.)
- Industry-standard S/PDIF input



Content Protection

- Integrated HDCP cipher engine
- Pre-programmed HDCP keys
 - Simplify manufacturing process
 - Most secure solution available
 - Lower system, manufacturing costs
- Encrypts both video and audio

System Operation

- Register-programmable via slave I²C interface
- Master I²C simplifies system design
- Flexible interrupt registers with interrupt pin
- Monitor detection supported through hot plug and receiver detection

Power Management

- 1.8V core provides low-power operation
- Flexible power-down modes

Silicon Image's SiI 9030 Starter Kit (CP9030HDMI)

Contents include:

Hardware

- SiI 9030 Transmitter Stand Alone Board
- HDMI to HDMI cable

Software

- HDMIGear Software Tool

Documentation

- User's Guide
- Schematics
- Bill of Materials (BOM)

Part Number - SiI9030CTU: 25-112MHz (use for 720p/1080i applications)
SiI9030CTU-7: 25-150MHz (use for WSXGA/1080p applications)

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