

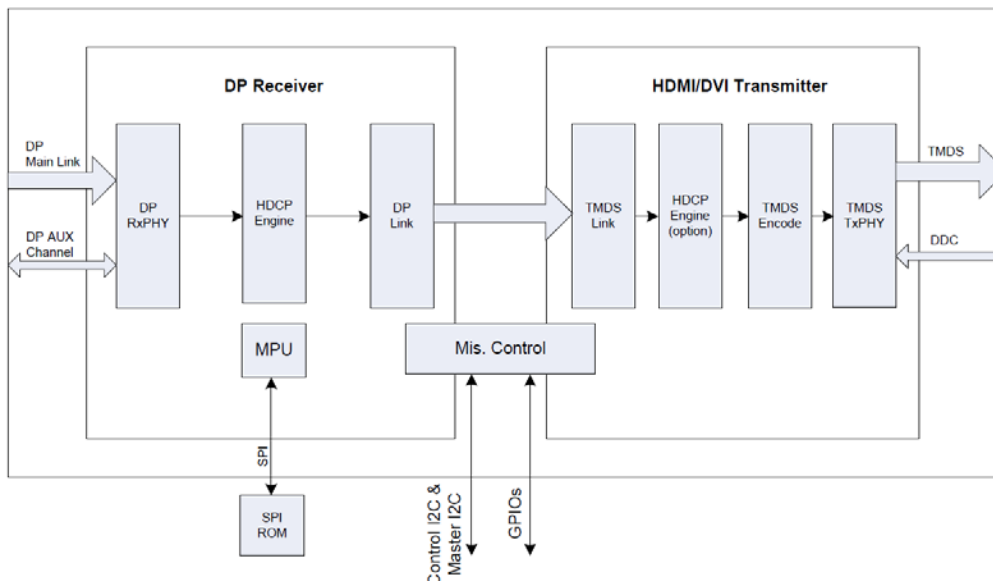


PS161 DisplayPort™ to HDMI/DVI Converter

Provides a DisplayPort Input on an HDMI/DVI Receiver

Product Brief

PS161



FEATURES

- Complete DisplayPort™ receiver, and complete HDMI/DVI transmitter
 - Accepts DisplayPort video + audio, outputs HDMI video + audio
 - Full HDCP 1.3 content protection support
- Includes on-chip microprocessor with SPI ROM interface
 - SPI ROM used for DisplayPort input EDID and device firmware
- 1.2V Core Power Supply & 3.3V I/O Power Supply
- Internal crystal oscillator
- ESD: HBM 8kV at connector pins and 5kV for all other pins
- 64-pin TQFP RoHS package

DisplayPort Receiver Capability

Supports 1, 2, and 4 lanes, at both 1.62 Gbps and 2.7 Gbps data rates
Built-in automatic receiver equalization
Video input formats: RGB up to 12 bpc, YCbCr4:4:4 -4:2:2 up to 12 bpc
Supports reduced blanking or reduced refresh rate timing modes
Audio input formats: 8-ch LPCM, compressed audio and HBR
24-bit audio sample size, up to 192 kHz sample rate
Support DisplayPort Spread Spectrum Clocking

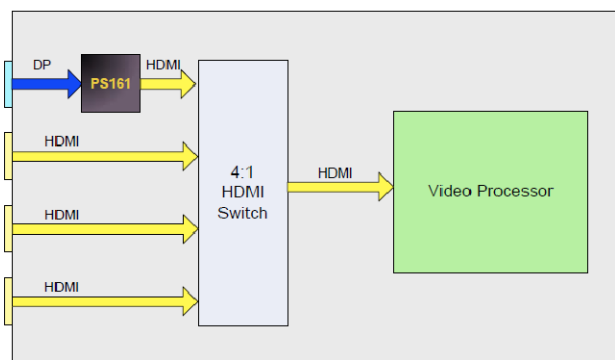
HDMI Transmitter Capability

HDMI 1.3a transmitter, up to 2.5Gbps supporting 1080p with 10/12-bit deep color
Video output formats: RGB up to 12 bpc, YCbCr4:4:4 -4:2:2 up to 12 bpc
Audio output formats: 8-ch LPCM, compressed audio and HBR
24-bit audio sample size, up to 192 kHz sample rate

APPLICATIONS

- Enables the provision of a DisplayPort input on existing HDMI or DVI receiver platforms:
 - DTV
 - Projector
 - LCD Monitor
 - A/V Receiver

Typical Application in a DTV Receiver



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