FEATURES

Video and graphics digitizer
- Four 170 MHz, 12-bit ADCs
- 12-channel analog input mux
- 525i/-625i-component analog input
- 525p/-625p-component progressive scan support
- Digitizes RGB graphics up to 1600 × 1200 at 60 Hz (UXGA)

HDMI®/graphics and composite processing
- Simultaneous HDMI and graphics synchronization processing
- NTSC/PAL/SECAM color standards support
- NTSC/PAL 3D comb filter
- 3D digital noise reduction (DNR)
- Advanced time-base correction (TBC) with frame synchronization
- Interlaced-to-progressive conversion for 525i and 625i
- Advanced VBI data slicer, including teletext, CC, and V-chip
- IF compensation filter
- Analog monitor output
- SCART fast blank support, including slow switch detect
- Programmable internal anti-alias filters
- Support for weak, poor time base and nonstandard input signals
- Vertical peaking, horizontal peaking, CTI, and LTI

Quad HDMI® receiver
- 225 MHz HDMI receiver
- Repeater support
- High-bandwidth Digital Content Protection (HDCP 1.3)
- 36-/30-bit Deep Color and 24-bit color support
- HDMI 1.3-compatible audio interface
- S/PDIF (IEC90658-compatible) digital audio output
- Programmable equalizer for cable lengths up to 30 meters
- Internal EDID RAM

General
- Highly flexible output interface
- 36-bit 4:4:4 pixel output interface
- Dual STDI function support standard identification

APPLICATIONS

Advanced TVs
- PDP HDTVs
- LCD TVs (HDTV ready)
- LCD/DLP® rear projection HDTVs
- CRT HDTVs
- LCoS™ HDTVs
- AVR video receivers
- LCD/DLP front projectors
- HDTV STBs with PVR
- CRT HDTV
- Projectors
- DVD recorders with progressive scan input support
NOTES

PC refers to a communications protocol originally developed by Philips Semiconductors (now NXP Semiconductors).

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