

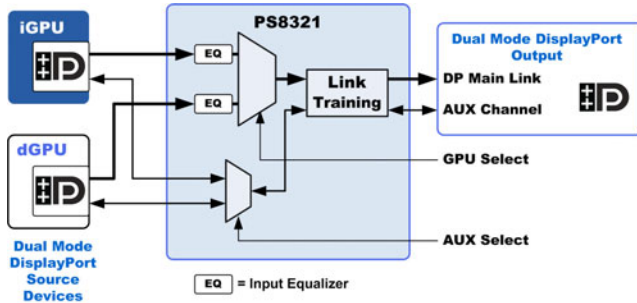


PS8321 DisplayPort™ Dual Mode 2:1 Multiplexer

Product Brief

PS8321

TYPICAL SYSTEM APPLICATION



FEATURES

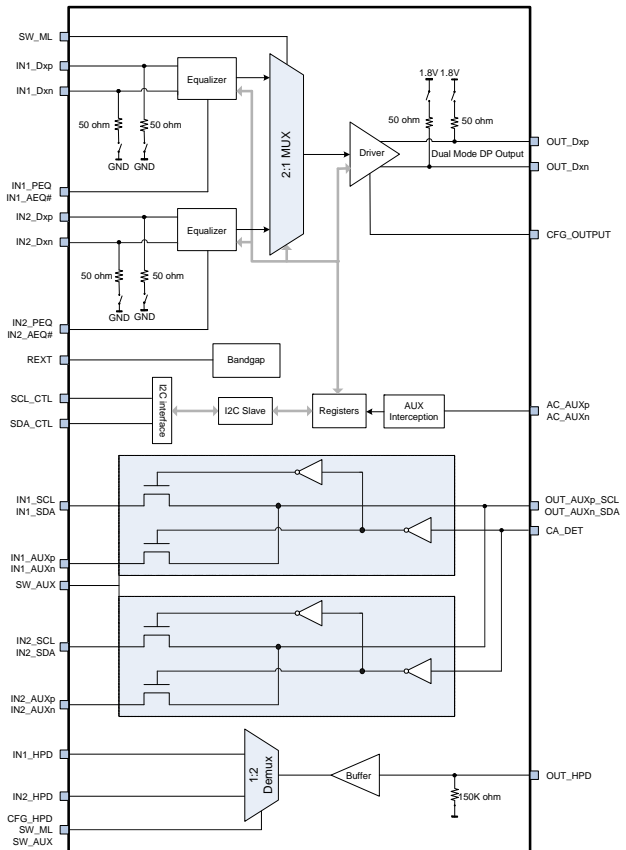
- Supports 2:1 Dual Mode DisplayPort™ signal multiplexing
- Compliant to VESA DisplayPort Standard version 1.1a for both 1.62 and 2.7 Gbps link rates
- Compliant to VESA DisplayPort PHY Compliance Test Standard version 1.1
- Separated Main Link and AUX Channel switching controls
- Automatic receiver equalization adjustment compensates for PCB, cable and connector losses
- Full link training support for 1, 2, or 4 lane DisplayPort output
 - Supports all 4 output amplitude and pre-emphasis levels for DisplayPort output
- Supports DP source power management through AUX channel
- Automatic power down management
- Built-in AUX CH and DDC combiner for Dual Mode Source repeater
- Automatic squelch for fail-safe and power saving
- Local I2C control or Pin Control options
- Single 3.3 V power supply
- 56-pin QFN Halogen free RoHS package
- 0° to 70°C operating temperature range
- ESD: HBM 8 kV

APPLICATIONS

- Source Systems
 - Desktop and notebook PC motherboards
 - Notebook docking stations
 - Graphics cards
- Sink Systems
 - Monitors
 - Branch Devices

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BLOCK DIAGRAM



DESCRIPTION

The PS8321 is an integrated dual mode DisplayPort 2:1 multiplexer. The dual mode DisplayPort output supports HDMI/DVI compatibility through the use of a down-stream, level-shifting cable adapter (dongle). The device includes an automatic input equalizer to compensate for PCB signal loss. The DisplayPort output includes a repeater function complete with link training to assure system compliance test compatibility. All CMOS configuration input pins are internally pulled down by 150kΩ resistors, except for the cable adaptor detection pin.

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