

8.1G (up to HBR3) DisplayPort™ 4-lane Re-timer

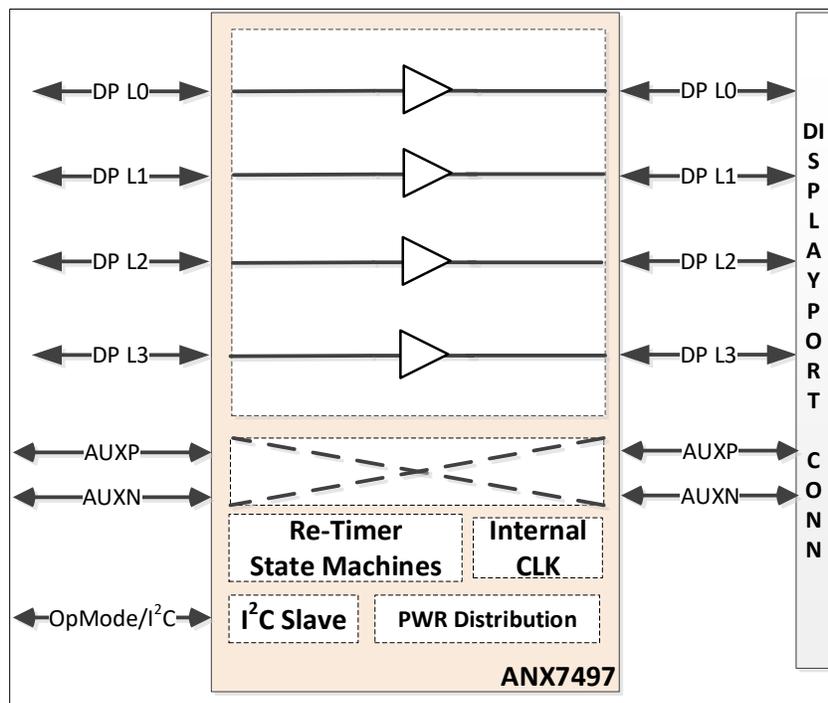
ANX7497 is a DisplayPort 4-lane re-timer capable of conditioning DP signals up to 8.1Gbps (supports HBR3, HBR2, HBR, RBR rates). ANX7497 can compensate signal loss of up to 27dB and can operate in either DP transparent mode or Link-Trainable Tunable PHY Repeater (LTTTPR) mode. ANX7497 integrates the DP Aux signal pass-through and is protocol aware for better link power management and power savings. ANX7497 integrates the local reference clock and AUX mux for switching DP AUX signals and reducing overall system BOM cost. ANX7497 can be deployed in various types of applications such as PCs, mobile, accessories, monitors, active cables and VR HMDs with various connectors such as mini-DP, standard-DP, or even USB Type-C™.

Features

- Built-in re-timers
 - Integrated re-timers (Link training-tunable PHY repeater) for DisplayPort up to HBR3 @ 8.1Gbps. Supports both transparent mode and non-transparent mode (transparent or LTTTPR)
 - Loss compensation to recover up to 27dB
- Integrated AUX pass-through
 - Integrated AUX detection for link training and protocol awareness for better link power management (LPM)
- Integrated reference clock
- Serial and debug interfaces
 - I²C Slave interface, up to 1MHz, for mux and re-timer configuration
- Industry standard compatibility
 - DisplayPort 1.4a specification
- Low-power design
 - Power supply at 1.8V
 - Core power supply at 1.2V
- Package
 - QFN-50, 4.7mm x 6.4mm, 0.90mm Z-height, 0.35mm pin-pitch
- Commercial temperature range of 0C to 70C

Applications

PCs, mobile, accessories, monitors, active cables, and VR HMDs



Related Products

| Part Number | Description |
|-------------|--|
| ANX7431 | USB3.2 (10G) 1x2 Active Switch USB-C Re-timer |
| ANX7433 | 10G Active Mux (1x2) with Integrated Re-timer and CC Detection for USB 3.2 |
| ANX7443 | 10G Active Mux (6x4) with Integrated Re-timers for USB3.2/DisplayPort |
| ANX7451 | 10G Active Mux (4x4) with Integrated Re-timers for USB3.2/DisplayPort |
| ANX7491 | 10G USB 3.2 Re-timer (1-Port) |

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