

Interface IP

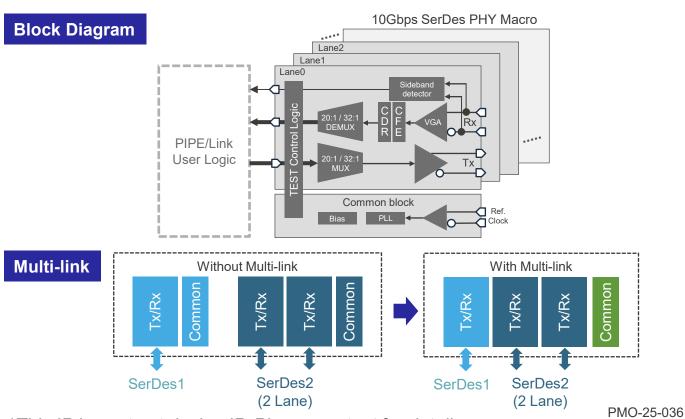
SerDes PHY(PCle3.0, USB3.1 SS) 10Gbps for TSMC 28nm HPC+

Overview

The Renesas SerDes PHY is useful analog transceiver hard macro for various high speed serial interface PHY layer of TSMC 28nm HPC+ process. This macro can be used as 1.25~ 10Gbps various high speed interface standards PHY.

Key Features

- Renesas SerDes PHY can be used for analog transceiver of following interface.
 - PCI Express 3.0 / USB3.1 gen2 superspeed / Serial ATA 3.1/ 10GKR / SGMII *1
 - *1 There are some restrictions for use case of these standards. Please contact and consult to Renesas Electronics for detail information before purchasing product.
- Multi-link support for area reduction in using multiple SerDes
- Technology is TSMC 28nm HPC+ 1p10M
- Supply voltage can be applied 0.90V for nominal and 1.0V for overdrive of core voltage, 1.8V for IO voltage.
- 3Tap FIR filter for Tx equalizer / Adaptive 5Tap DFE for Rx equalizer.
- Built-in differential input buffer for clean reference clock



*This IP is contract design IP. Please contact for detail.

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