

## High speed SerDes PHY macro Datasheet

# SATA PHY for TSMC 28nm HPC+

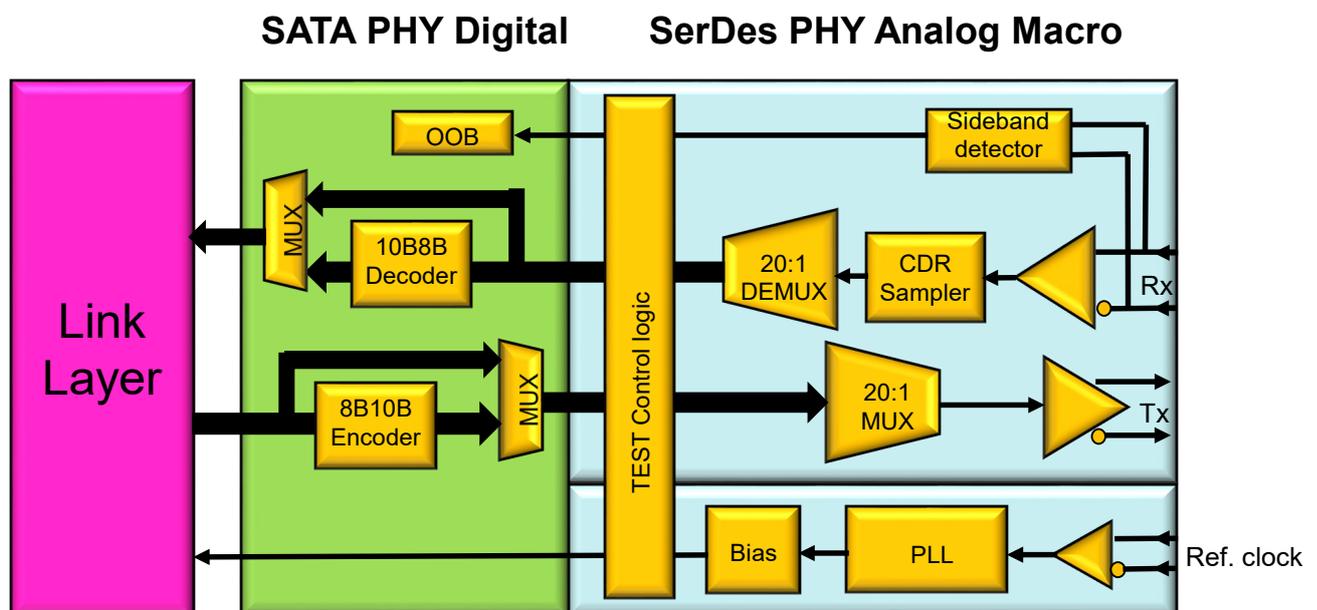
### Overview

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 is designed for Serial ATA Revision 3.1.

### Key Features

- Renesas SerDes PHY can be used for analog transceiver of following interface .
  - Serial ATA Revision 3.1 ( compliant with “Serial ATA Revision 3.1” )
- Technology is TSMC 28nm HPC+ 1p10M (5x2y2r).
- Supply voltage can be applied 0.90V for nominal and 1.0V for overdrive of core voltage, 1.8V for IO voltage.
- 2Tap FIR filter for Tx equalizer / Tunable peaking amplifier for Rx equalizer.
- Built-in differential input buffer for clean reference clock.

### Block Diagram



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

\*1 There are some restrictions for use case of these standards. Please contact and consult to Renesas Electronics for detail information before purchasing product.