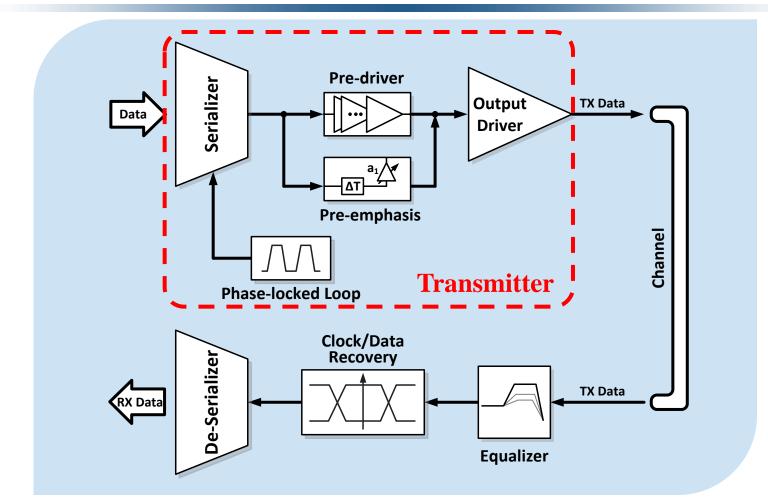
High-Speed SERDES System



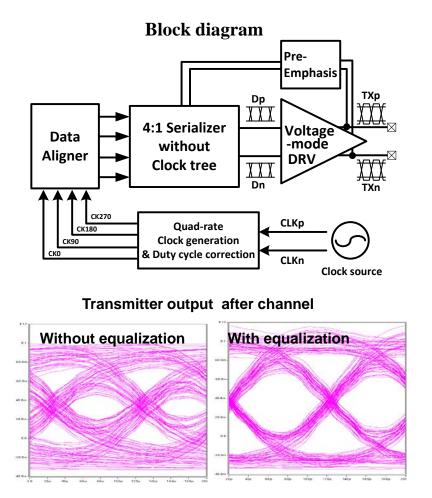
- 10-GHz low-power transmitter with pre-emphasis
- 0.65-V low-supply, low power PLL with charge pump current and supply noise compensation

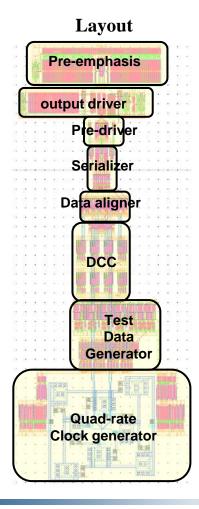




Low Power Transmitter

- 10-Gb/s 1.837-mW low power transmitter with pre-emphasis
 - → Domestic patent pending 'SERIALISER AND DATA TRANSMITTER COMPRISING THE SAME'

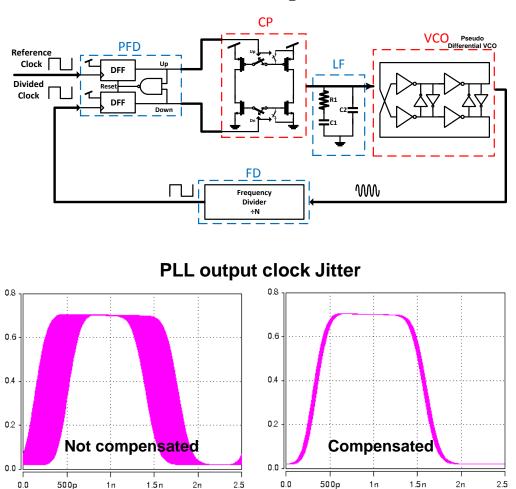






Low Supply Low Power PLL

• 0.65-V 400-MHz low power PLL with charge pump current and supply noise compensation



YONSEI UNIVERSITY

Block diagram

Layout

