

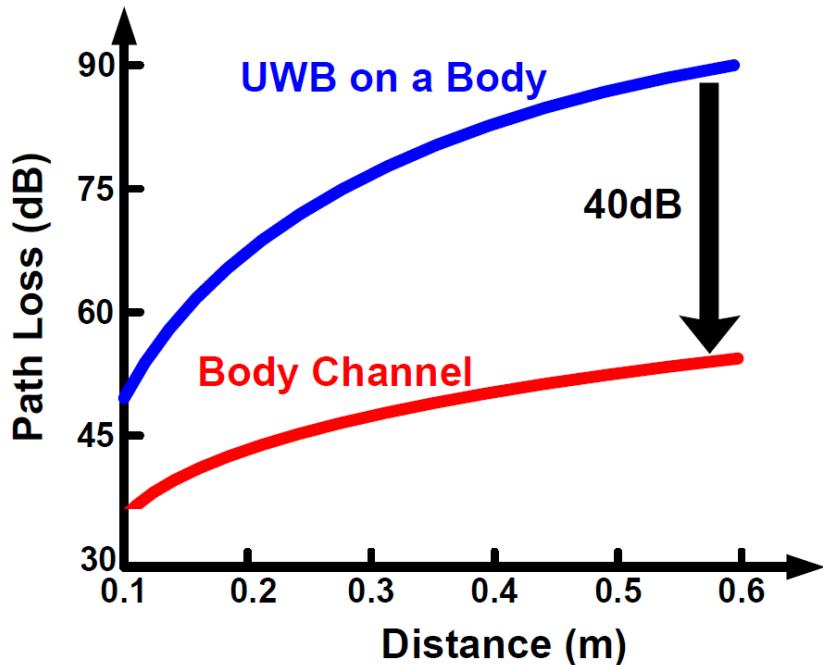


A 16.6-pJ/b 150-Mb/s Body-Channel Communication Transceiver with Decision Feedback Equalization Improving >200x Area Efficiency

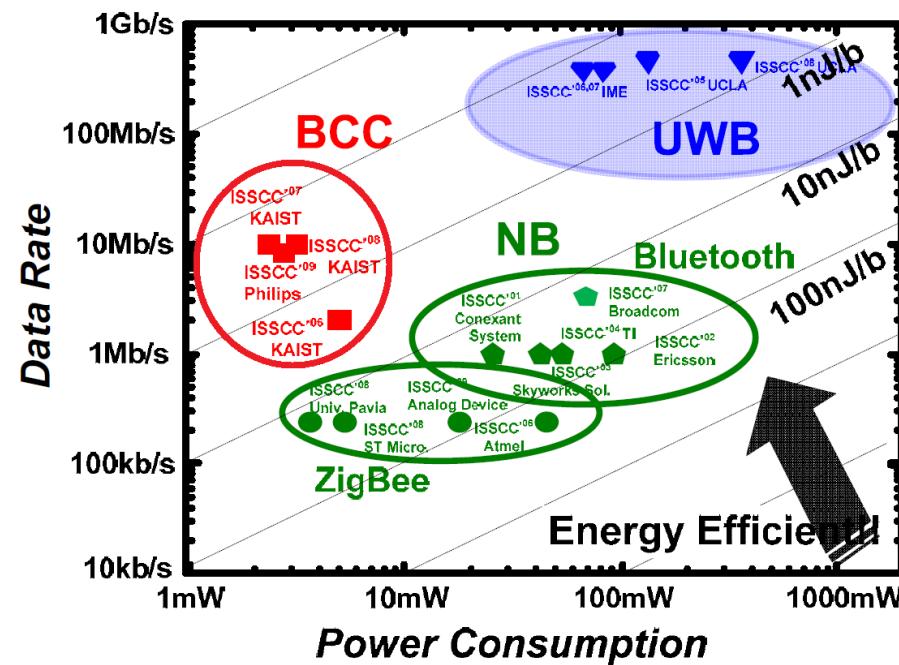
Ji-Hoon Lee, Kwangmin Kim, Minsoo Choi,
Jae-Yoon Sim, Hong-June Park, and Byungsub Kim

Pohang University of Science and Technology

Body-Channel Communication



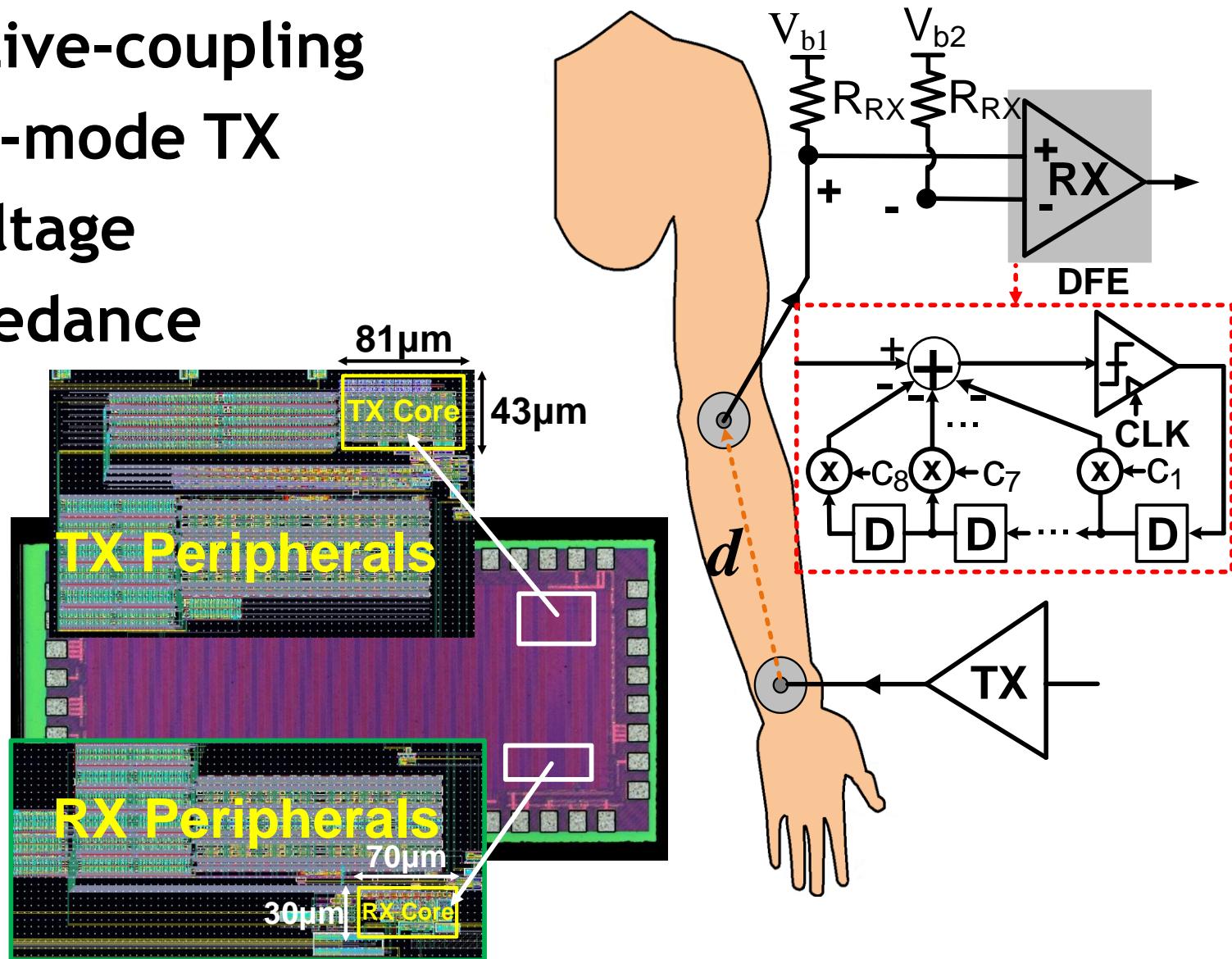
[1] A. Fort *et al.*, "Ultra-wideband Channel for communication around the human body," *IEEE J. Sel. Areas Communications*
 [2] J. Bae *et al.*, *IEEE ISSCC*, Feb 2011



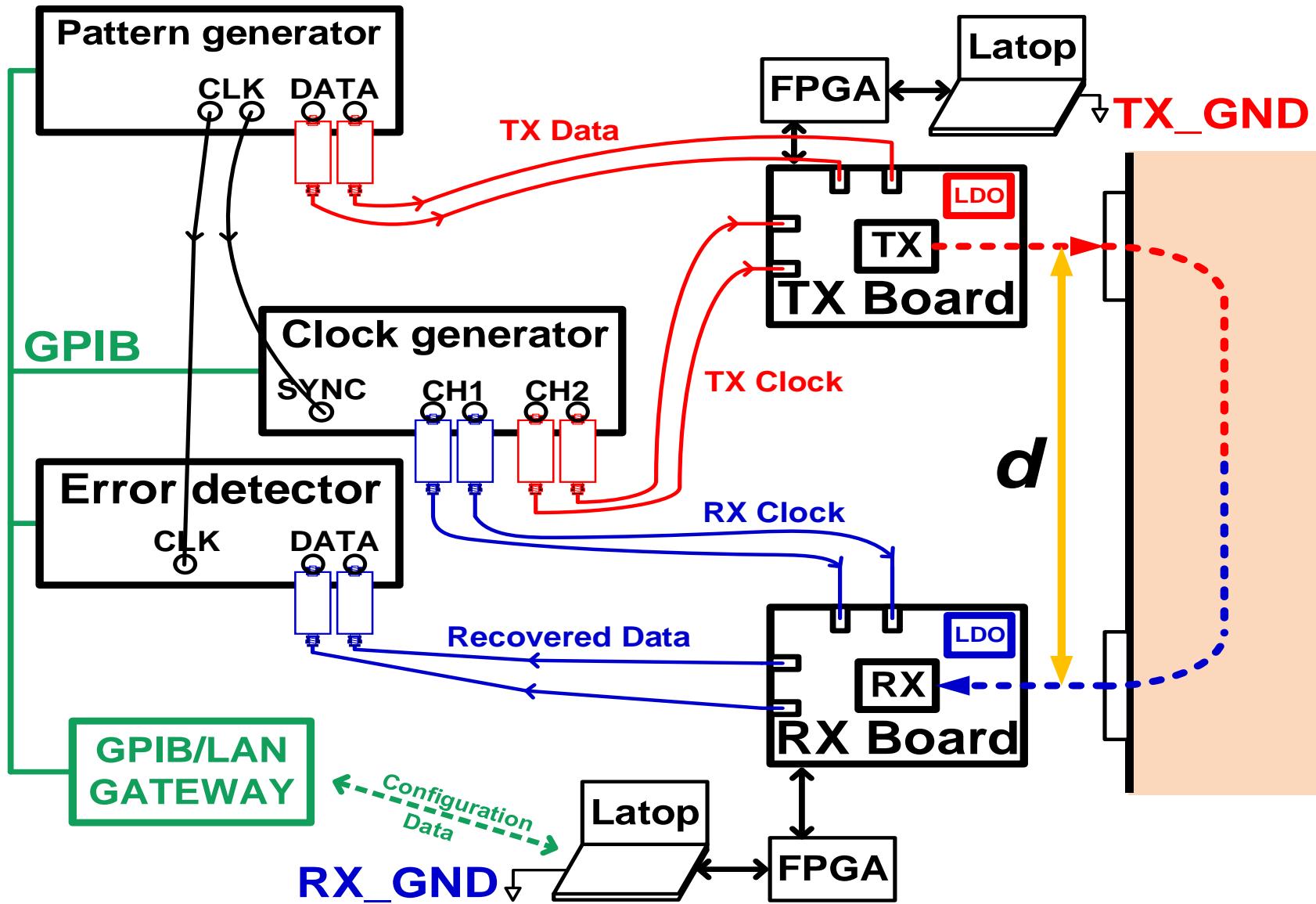
J. Bae *et al.*, “A 0.24-nJ/b wireless body-area-network transceiver with scalable double-FSK modulation,” *IEEE JSSC*

DFE-based BCC Transceiver

- Capacitive-coupling
- Voltage-mode TX
- Bias Voltage
- RX impedance
- DFE RX



Measurement Setup



Results

