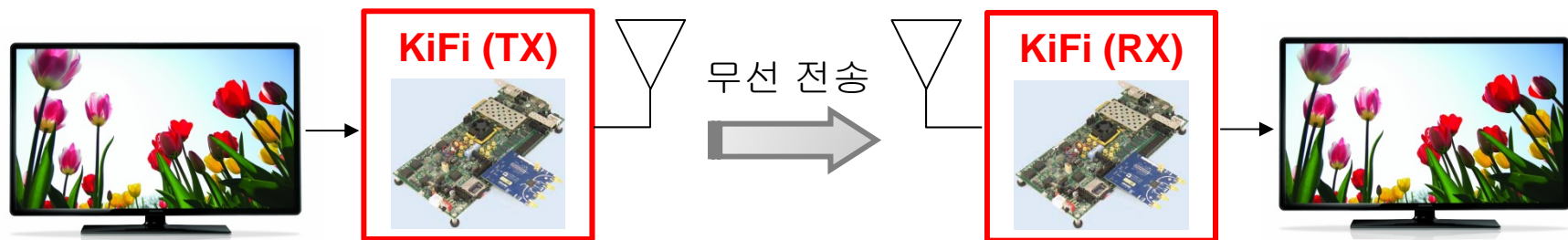


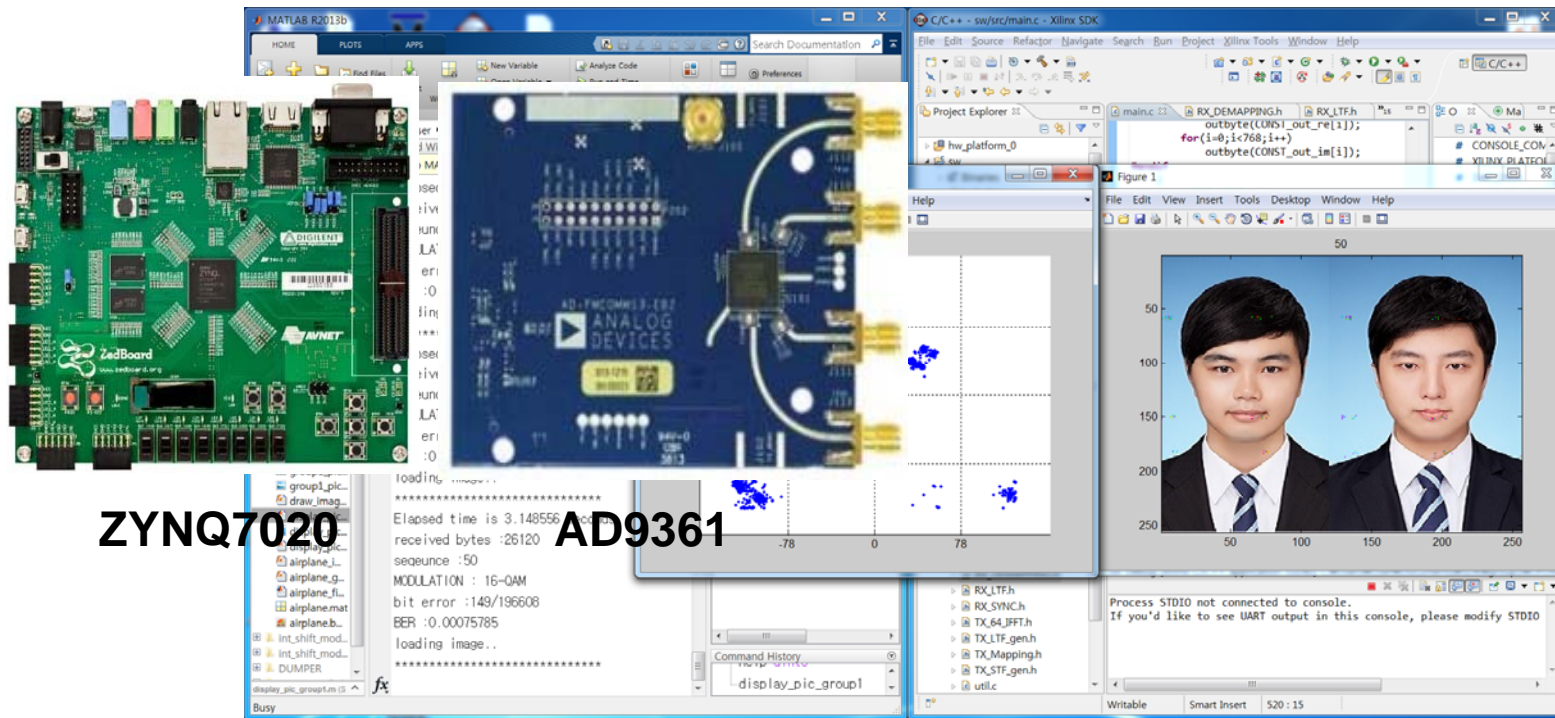
[SoC 설계 연구실] 2016 졸업작품

- **대상:** SoC 설계 연구실에서 졸업작품 수행할 학부생
 - 총 3조 (2~3명/조, 총 9명 이내)
 - 대학원 연구에 관심있는 학부생 환영 ☺
- **주제:** *Ku-WiFi* (일명 *KiFi*) 설계
 - SoC 플랫폼을 이용한 새로운 WiFi 시스템 (802.11) 설계
 - Xilinx ZYNQ 7020 (Cortex-A + FPGA) + AD9361 (RF)
- **내용:** C 코딩 (S/W) + VerilogHDL (H/W)
 - 무선 통신 성능 / 플랫폼 동작 속도 개선
- **목표:** 무선을 이용한 영상 전송 데모



KiFi2015

□ 시스템 구성

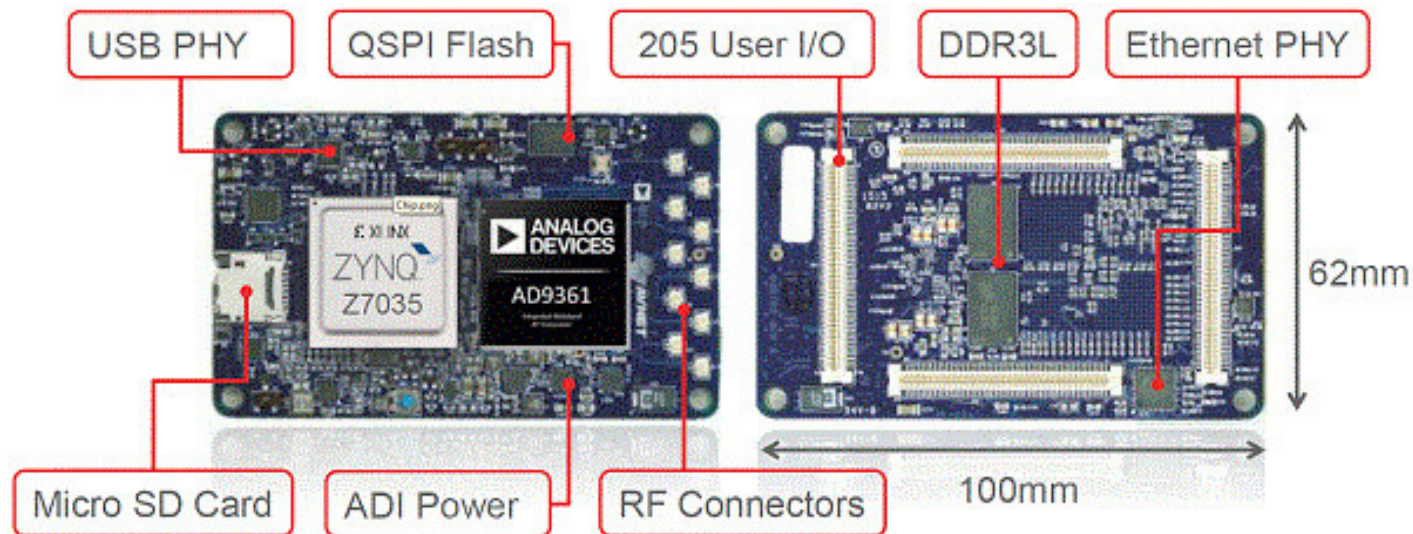


□ 데모 영상:

https://drive.google.com/open?id=0B40j25br_lm1RHAtRVBiTTfU2M

Avnet's ZYNQ-based SDR

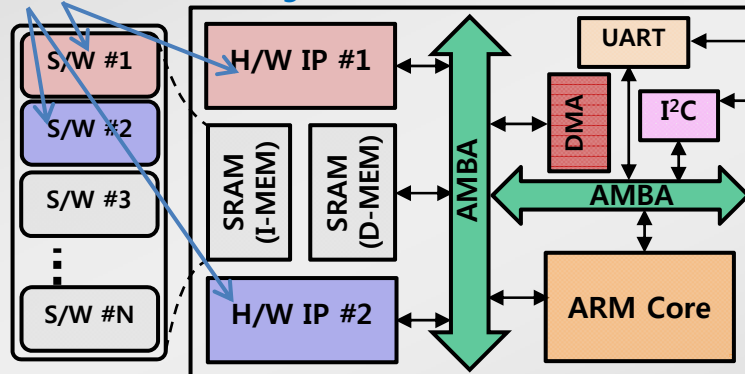
- ❑ “Avnet Inc. has unveiled what it boasts as a rugged, low-power, small footprint system-on-module (SOM) that combines critical RF signal path and high-speed programmable logic. The fully verified PicoZed SDR **Z7035/AD9361** claims to offer frequency-agile wideband 2x2 receive and transmit paths in the 70MHz to 6GHz range, making it ideal for both fixed and mobile SDR applications. The company added that the SOM allows designers to slash cycle times for development of the RF-to-baseband signal processing core for wireless communications systems” (EETAsia Oct. 9, 2015)
 - http://www.eetasia.com/ART_8800716314_499488_NP_5538083a.HTM?click_from=8800125251,8774305292,2015-1



첨부: SoC 설계 연구실 소개 자료

Design of High-Performance Low-Complexity SoC From HW to SW / System + Algorithm + Architecture

HW-SW Partitioning



Applications

- WiFi: 802.11n/ac/ax...
- Cellular: LTE/LTE-A...
- Cognitive Radios
- Biomedical sensors
- Wearable devices

Group Information

For more details, visit <http://soclab.konkuk.ac.kr>

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- Funding: LG Electronics, NRF (한국연구재단)

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