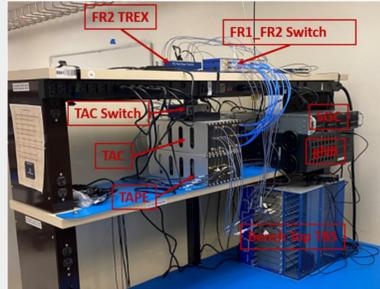


Product Overview

- Our product measures the insertion loss and checks connectivity of Qualcomm's cable connections



Features

- 8 Signal Inputs ports
- 10 Signal Receive ports
- I2C controlled
- 400 MHz to 6 GHz frequency generated and detected range
- 100 MHz minimum frequency sweep step size
- Record insertion loss for each input/output combination
- Record cross-talk for each input/output combination
- 20 dB dynamic range

WATT ⚡ WARRIORS

Acknowledgements

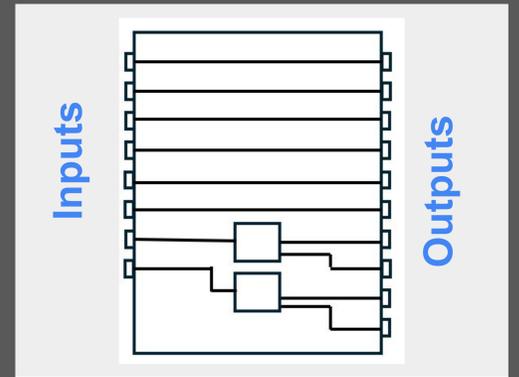
Thank you to Erez Falkenstein and Thomas Funk at Qualcomm. Also thanks to Ryan McCallan, Professor Bogatin and the rest of the Capstone team.

A.C.T System

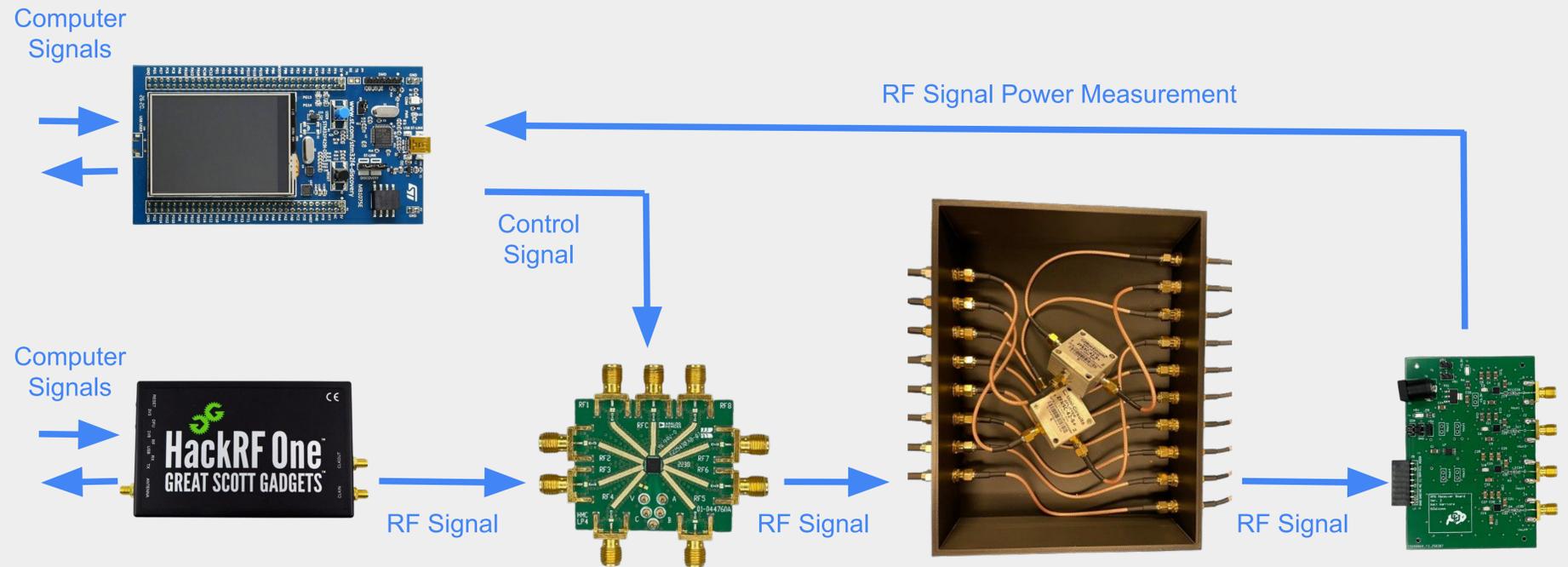
Automated Cable Test System

Andrew Crawley, Charlie Donalds, Max Kilcoyne
Josh Ramirez, Noah Schakel, Nattapast Sirawattanachai

Black Box



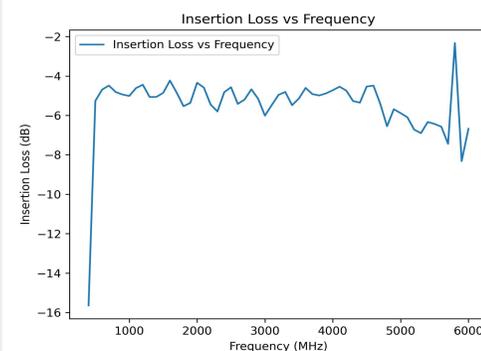
System Layout



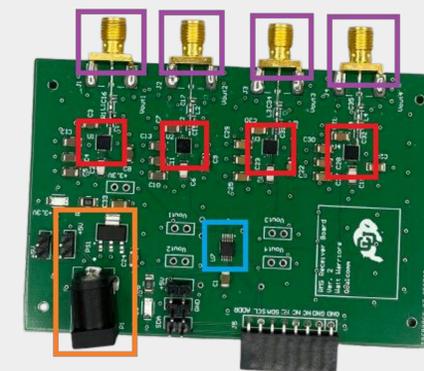
Qualcomm

College of Engineering & Applied Science
UNIVERSITY OF COLORADO BOULDER

Measurement



Receiver Board



Legend

- Receiver chip █
- ADC █
- Power Management █
- RF Input █