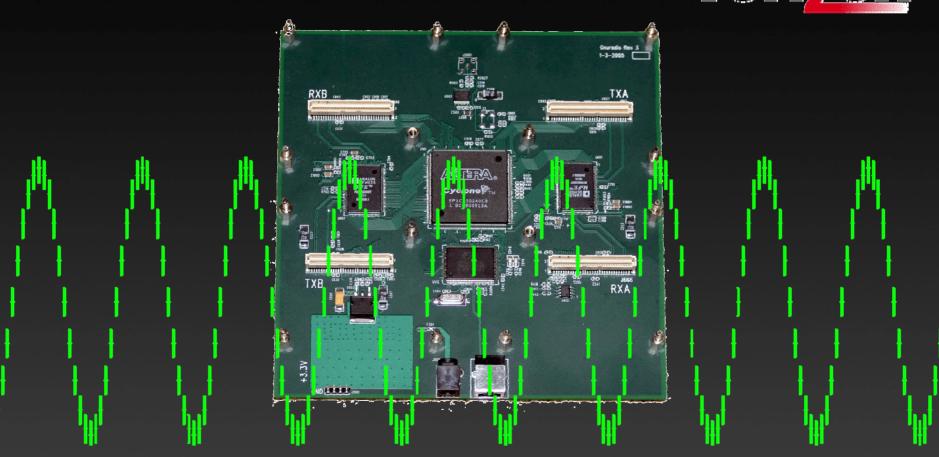
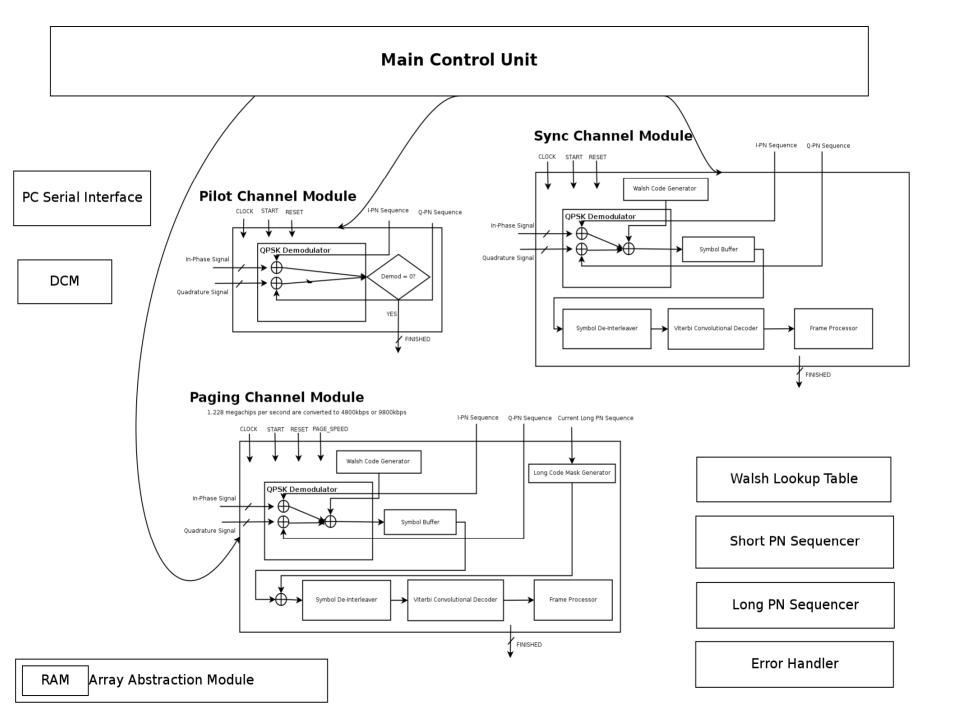
CDMA Control Channel Traffic Analyzer



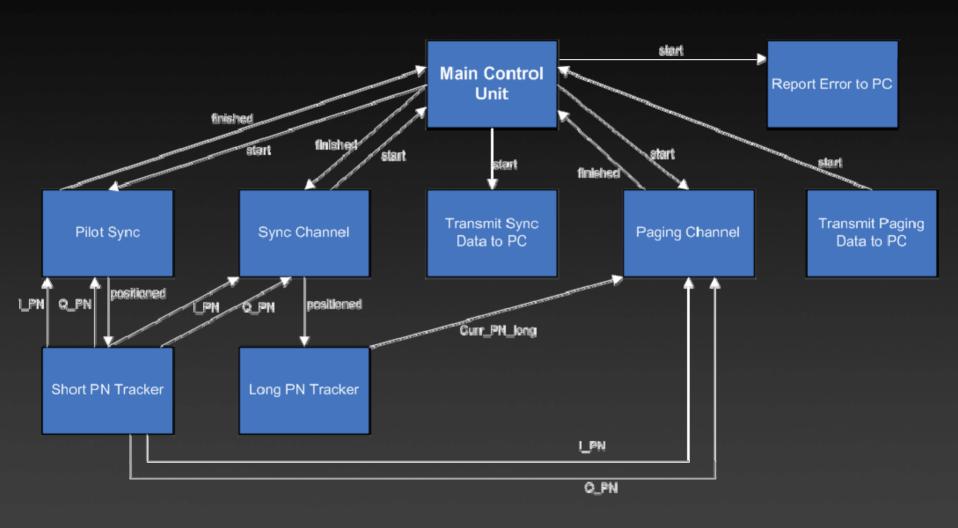


The Big Picture

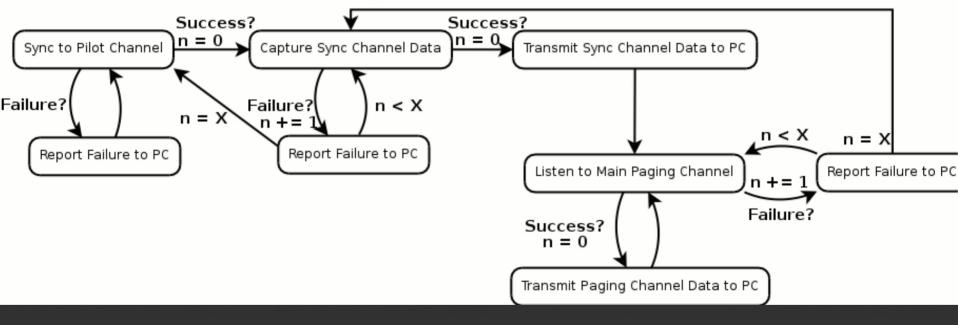
- 1) Tune Radio
- 2) Listen to Pilot Channel
- 3) Listen to Synchronization Channel
- 4) Transmit Sync data via RS232
- Listen to Paging Channel
- 6) Transmit Paging data to PC



Main Control Unit



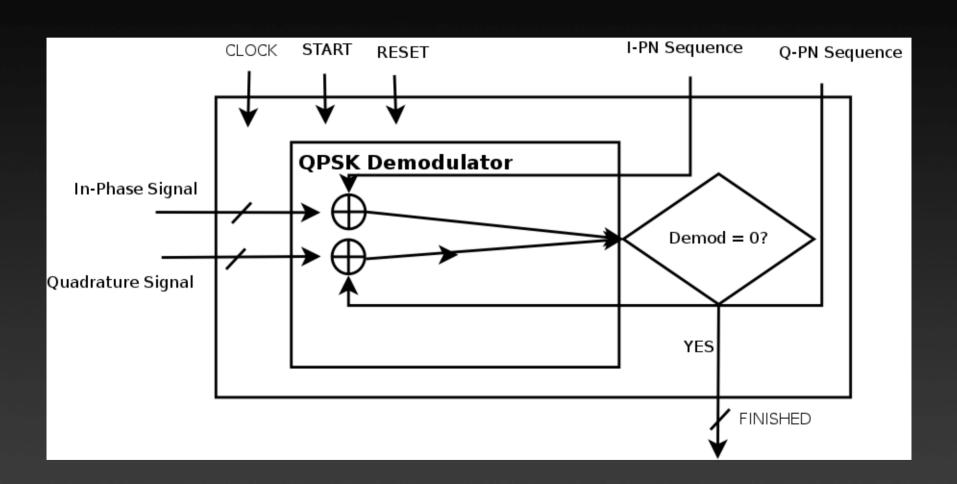
X: Max retries before retrying previous stage



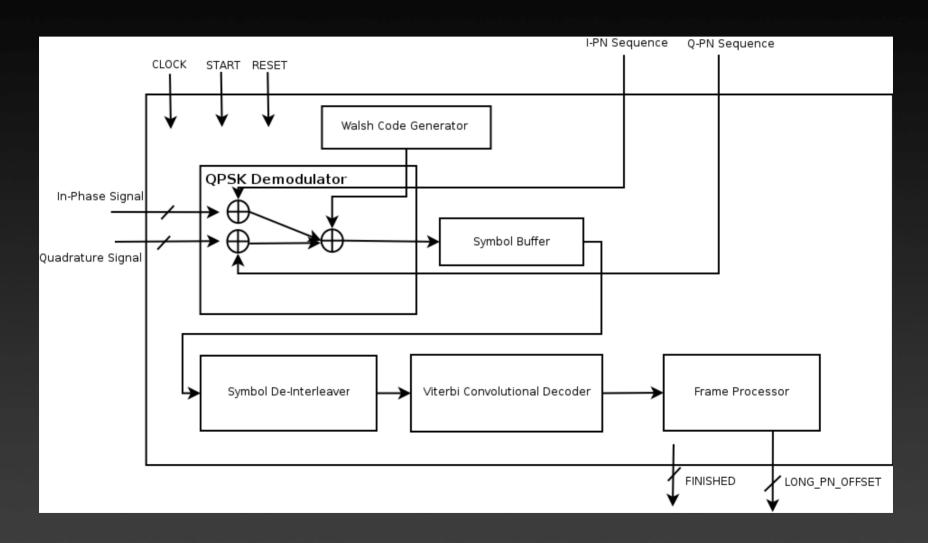
Computer Interface

- High Speed USB->UART converter chip for communications between the FPGA and PC
- Each control unit will have access to talk to host PC
- Software written in Python will interface with the USRP to set center frequency
- USRP transmits I/Q data to PC, which then forwards it to the FPGA

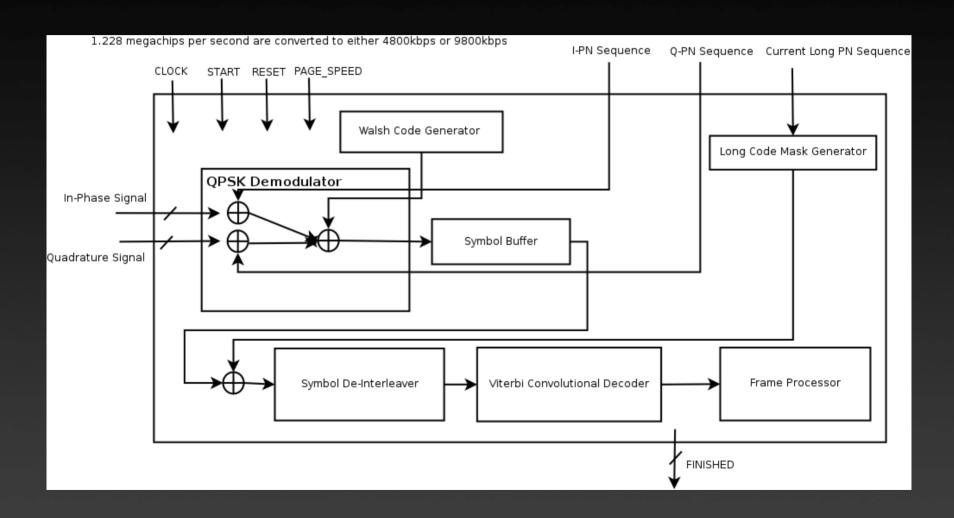
Pilot Channel



Synchronization Channel



Paging Channel



and perhaps in the future... Full-duplex voice conversations