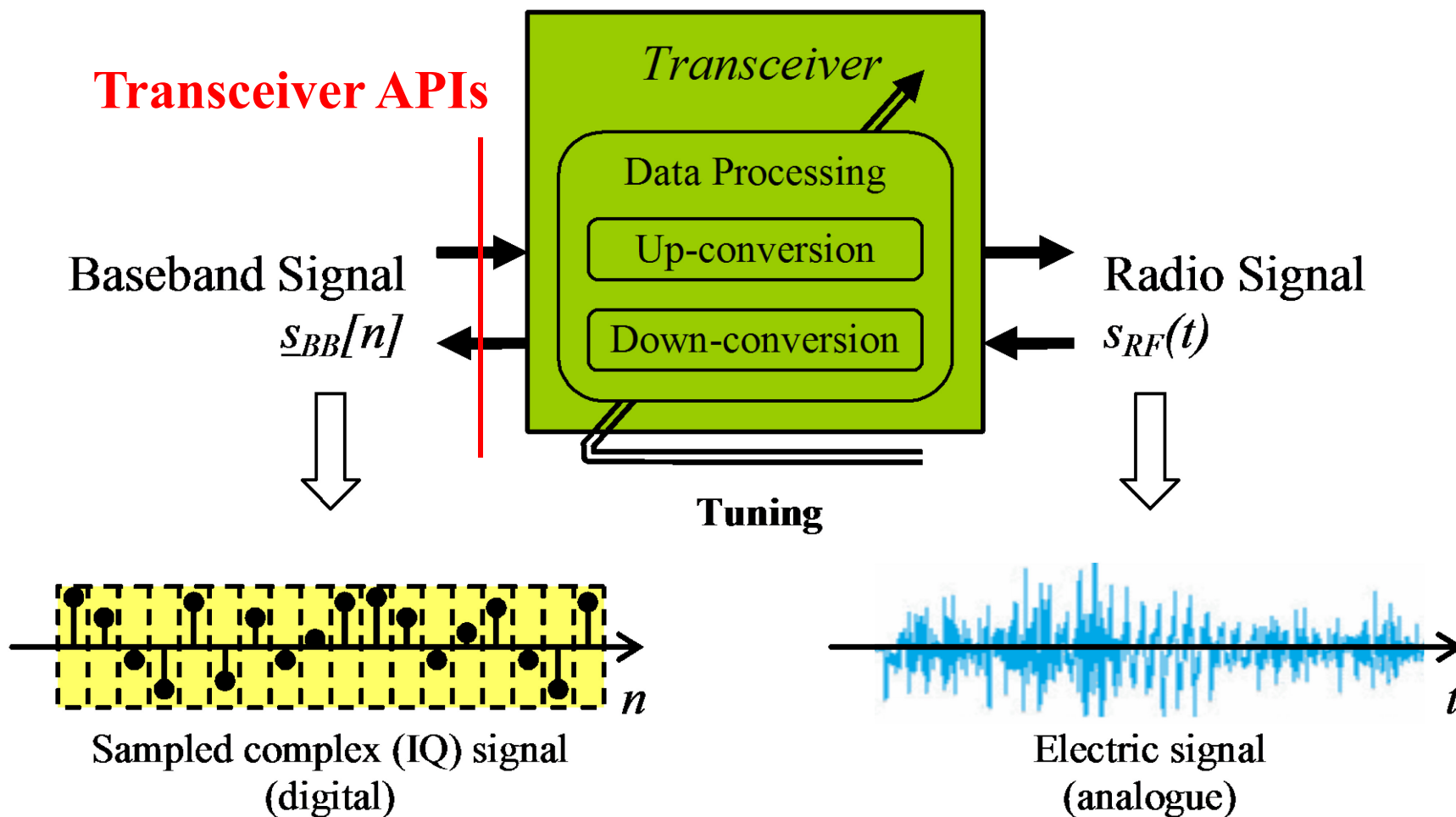
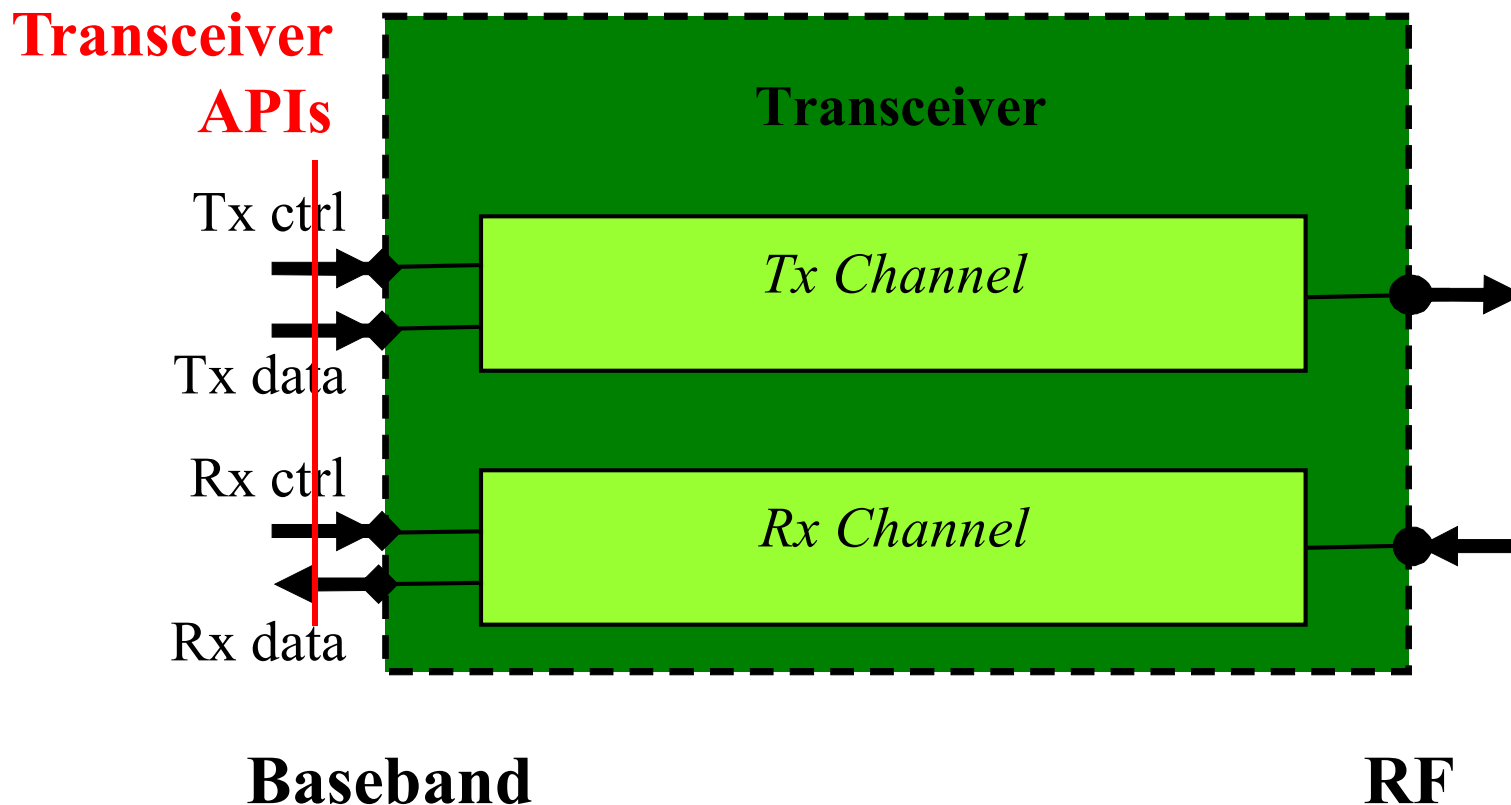


The Transceiver Interface API is a generic API aiming at becoming an standardized API for SDR architectures (developed within the Wireless Innovation Forum)

It is a functional specification for RF Hardware platforms command and control. It sits within the physical layer (L1).





- Tx and Rx channels with dedicated Data and Control interfaces
- Common description for Half Duplex, Full Duplex & Simplex
- No explicit direction setting interface is required

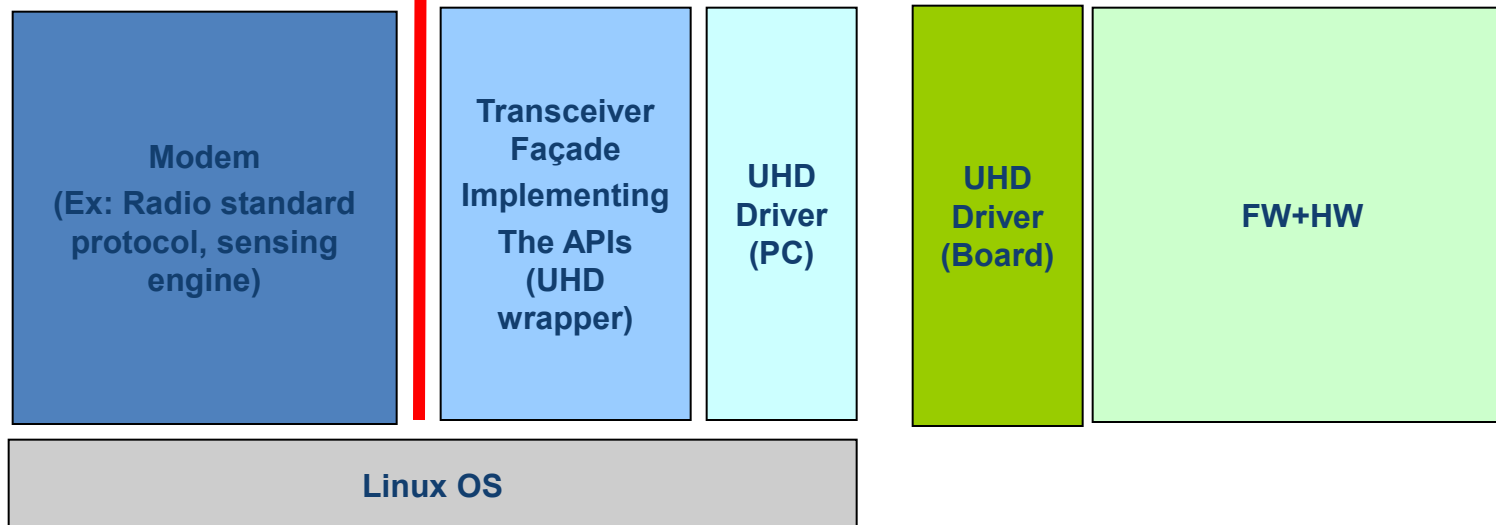
Linux PC



USRP2



API
operations



```
createTransmitCycleProfile(  
    TimeRequest requestedTransmitStartTime,  
    TimeRequest requestedTransmitStopTime,  
    UShort requestedTuningPreset,  
    Frequency requestedCarrierFrequency,  
    AnaloguePower requestedNominalRFPower);  
  
configureTransmitCycle(  
    ULong targetCycleId,  
    TimeRequest requestedTransmitStartTime,  
    TimeRequest requestedTransmitStopTime,  
    Frequency requestedCarrierFrequency,  
    AnaloguePower requestedNominalRFPower);  
  
setTransmitStopTime(  
    ULong targetCycleId,  
    TimeRequest requestedTransmitStopTime);  
  
pushBBSamplesTx(  
    BBSamplesPacket * thePushedPacket,  
    Boolean endOfBurst);
```

```
createReceiveCycleProfile(  
    TimeRequest requestedReceiveStartTime,  
    TimeRequest requestedReceiveStopTime,  
    UShort requestedTuningPreset,  
    ULong requestePacketSize,  
    Frequency requestedCarrierFrequency);  
  
configureReceiveCycle(  
    ULong targetCycleId,  
    TimeRequest requestedReceiveStartTime,  
    TimeRequest requestedReceiveStopTime,  
    ULong requestePacketSize,  
    Frequency requestedCarrierFrequency);  
  
setReceiveStopTime(  
    ULong targetCycleId,  
    TimeRequest requestedReceiveStopTime);  
  
pushBBSamplesRx(  
    BBSamplesPacket * thePushedPacket,  
    Boolean endOfBurst);
```