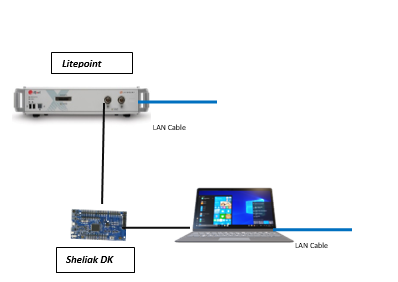
# Hardware Required

1. PC: Any Linux/Windows PC
2. DK
3. Litepoint
4. Co-axial Cables/LAN Cables

# Test Setup



# Installations

1. Python27 and the following modules

wget https://bootstrap.pypa.io/pip/2.7/get-pip.py

python2 get-pip.py

vim input\_conf.py

python -m pip install xlsxwriter

python -m pip install numpy

python -m pip install matplotlib

python -m pip install paramiko

python -m pip install serial

python -m pip install pyserial

python -m pip install openpyxl

python -m pip install docx

python -m pip install python\_docx

# Script Execution

1. Open input\_conf.py
2. Edit the following parameters

vim input\_conf.py

*tester\_hostname =*

*com\_port* =

board\_num =

1. Run the following command

python test\_dk.py

# Output

1. Text file be created in the same directory xo\_val\_board\_**14**.txt, assuming 14 as the board number configured in input\_conf.py
2. This XO will be used for all TX and RX tests
3. Sample output of execution is as below

Trying to find optimal XO for the board

Found Optimal XO : 30

=========== Starting TX Tests ===========

Channel : 1

Standard : 11b

Data Rate : 1

Measured EVM : -25.55

EVM Stauts : PASS

Spectral Mask Status : PASS

Channel : 1

Standard : 11b

Data Rate : 11

Measured EVM : -24.66

EVM Stauts : PASS

Spectral Mask Status : PASS

Channel : 36

Standard : 11n

Data Rate : MCS0

Measured EVM : -32.22

EVM Stauts : PASS

Spectral Mask Status : PASS

Channel : 36

Standard : 11n

Data Rate : MCS7

Measured EVM : -31.83

EVM Stauts : PASS

Spectral Mask Status : PASS

Channel : 149

Standard : 11n

Data Rate : MCS0

Measured EVM : -32.37

EVM Stauts : PASS

Spectral Mask Status : PASS

Channel : 149

Standard : 11n

Data Rate : MCS7

Measured EVM : -33.46

EVM Stauts : PASS

Spectral Mask Status : PASS

=========== Starting RX Tests ===========

Channel : 1

Standard : 11b

Data Rate : 1

Measured PER% : 0.0

PER Stauts : PASS

Channel : 1

Standard : 11b

Data Rate : 11

Measured PER% : 0.0

PER Stauts : PASS

Channel : 36

Standard : 11n

Data Rate : MCS0

Measured PER% : 0.0

PER Stauts : PASS

Channel : 36

Standard : 11n

Data Rate : MCS7

Measured PER% : 0.0

PER Stauts : PASS

Channel : 149

Standard : 11n

Data Rate : MCS0

Measured PER% : 0.0

PER Stauts : PASS

Channel : 149

Standard : 11n

Data Rate : MCS7

Measured PER% : 0.0

PER Stauts : PASS