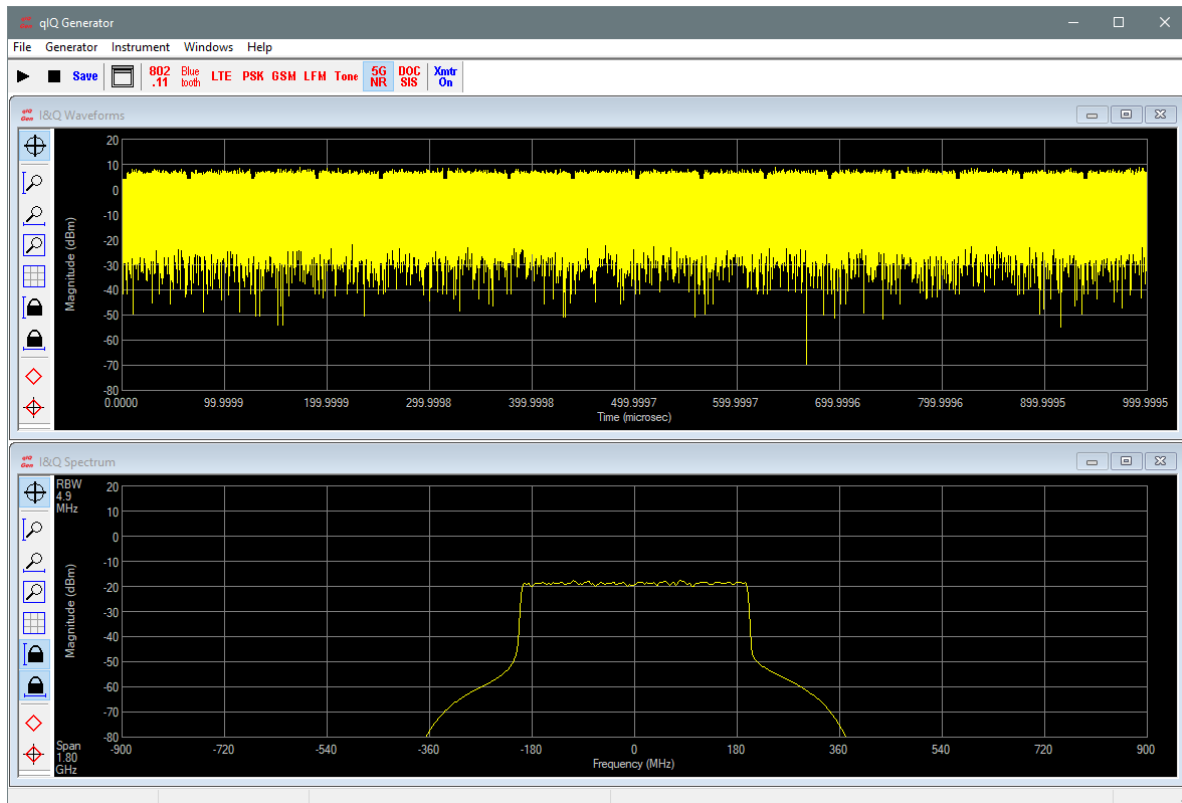


# qIQ Generator Data Sheet



A 5G signal synthesized at a sample rate of 1.96608 Gsps.

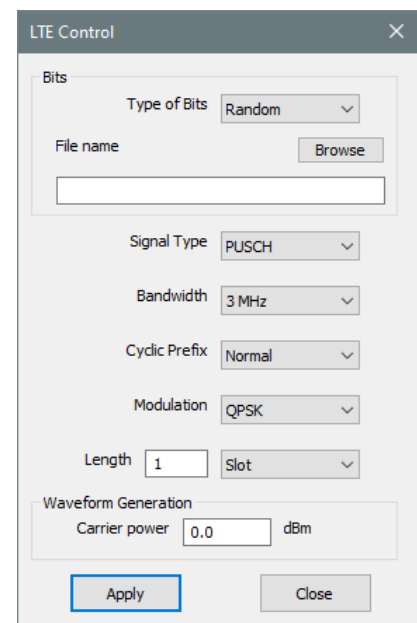
qIQ Generator is a Windows application which creates waveforms for various wireless signal types. It provides a powerful, low-cost method for generating signals for use with Analog Devices eval boards.

## Features

- Straightforward control of waveform synthesis
- Post-synthesis, output waveform processing
- Glitch-less waveforms for looping
- Store in various file formats, or send to an eval board
- Use various bit sequences, or read bits from a file
- Metadata stored in the file can set up the receiver

## Waveform types

- PSK: BPSK, QPSK, 8-PSK
- QAM: 16-QAM, 64-QAM, 256-QAM
- 4G LTE, 5G NR: PUSCH
- DOCSIS 3.0: Uplink and downlink
- 802.11 a/g



LFM Chirp  
Two-tone

## Uses

Low-cost signal generator  
PSK/QAM observed bit error rate testing

## File formats

Rohde & Schwarz wvd / wvh  
Tektronix siqd / siqh  
Agilent VSA binary  
QIQ Systems iqbin, iqtxt

## Output processing

Integer interpolation and decimation  
Arbitrary resampling (match any sample rate)  
Frequency shifting  
Add AWGN noise

## Evaluation boards supported

Transceivers  
Pluto  
FMCOMMS 3, 4  
ADRV9361, ADRV9364  
ADRV9009  
Direct sampling  
AD9081  
FMCOMMS 11  
FMC DAQ2

## Licenses

Base version provides PSK/QAM modulation

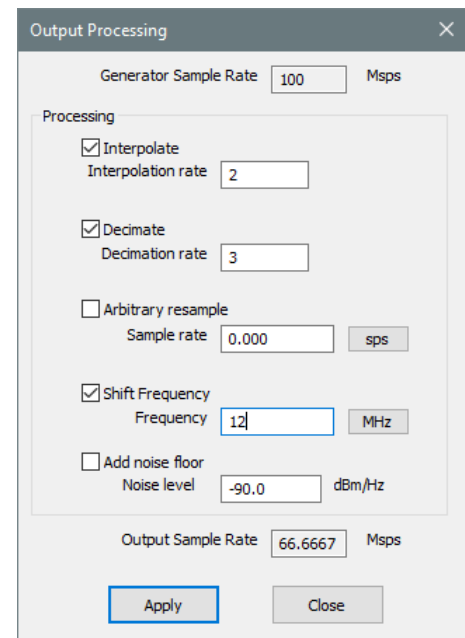
Options:

5G NR  
4G LTE  
802.11a  
Bluetooth  
GSM  
DOCSIS 3.0

One month or one year

No penalty restarts

802.11a with noise added.



## More information

Website: <https://qiqsystems.com/solutions/products/generator>

Pricing: <https://qiqsystems.com/pricing-and-licensing>

YouTube channel: QIQ Systems  
Email: info@qiqsystems.com