

**Options**  
**Title:** Phosphor Spectrum  
**Output Language:** Python  
**Generate Options:** QT GUI

**Variable**  
**Id:** samp\_rate  
**Value:** 100M

**Variable**  
**Id:** spp  
**Value:** 1.024k

**RFNoC Graph (Device)**  
**Id:** ettus\_rfnoc\_graph\_0  
**Device Address:** type=x300  
**Device Args:** addr=...168.10.2

**QT GUI Range**  
**Id:** gain  
**Label:** Gain (dB)  
**Default Value:** 0  
**Start:** 0  
**Stop:** 32  
**Step:** 1

**QT GUI Range**  
**Id:** freq  
**Label:** RX frequency (Hz)  
**Default Value:** 2.45G  
**Start:** 10M  
**Stop:** 5G  
**Step:** 1M

**RFNoC RX Radio**  
**Number of Channels:** 1  
**Block Args:** spp=1024  
**Device Select:** -1  
**Instance Select:** -1  
**Sample Rate (Hz):** 200M  
**Antenna Select:** RX2  
**Center Frequency (Hz):** 2.45G  
**Gain:** 0  
**Automatic Gain Control:** Default  
**Bandwidth (Hz):** 0  
**DC Offset Correction:** True  
**IQ Balance:** False

**RFNoC Digital Downconverter Block**  
**Number of Channels:** 1  
**Block Args:**  
**Device Select:** -1  
**Instance Select:** -1  
**Frequency Shift (Hz):** 0  
**Output Rate (Hz):** 100M

**RFNoC Fast Fourier Transform Block**  
**Number of Channels:** 1  
**Block Args:**  
**Device Select:** -1  
**Instance Select:** -1  
**FFT Length:** 1.024k  
**FFT Direction:** Forward  
**FFT Magnitude Mode:** Complex  
**FFT Shift Configuration:** Normal  
**FFT Scaling Schedule:** 1.706k

**RFNoC Fospor Block**  
**Block Args:**  
**Device Select:** -1  
**Instance Select:** -1  
**Waterfall:** Enabled  
**Randomization Enable:** Enabled  
**Dither Enable:** Enabled  
**Waterfall Mode:** Max Hold  
**Waterfall Predecimation Ratio:** 1:1  
**Waterfall Decimation:** 32

**RFNoC Rx Streamer**

**RFNoC Rx Streamer**

**RFNoC Qt Fospor Display**  
**Center Frequency:** 2.45G  
**Sample Rate:** 100M  
**FFT Bins:** 1.024k  
**Power Bins:** 64  
**Waterfall:** Enabled  
**Waterfall History:** 512  
**Grid:** Enabled  
**Color Palette:** Iron  
**Target Frame Rate:** 15  
**GUI Hint:** self.t...Widget(%s)

cfg

