Universal Software Radio Peripheral (USRP) Requirements:

- RF Connectors: 50 Ω SMA (f)
- Processing System
    - CPU: at least 1200 MHz
    - Memory: at least 4 GB DDR4 @ 2.4 GT/s,
    - Connectors:
        - RJ45
        - USB-C (at least 2)
- Baseband
    - Minimum of 500 MS/sec
    - Minimum of 4 channels
    - ADC resolution at least 12 bit
    - DAC Resolution at least 14 bit
- RF Transmitter
    - No less than 4 channels
    - Frequency range: 1 MHz to 8 GHz
    - Frequency step: less than 1 MHz
    - Maximum output power: <23 dBm
- Bandwidth and Noise Density
    - Maximum instantaneous real-time bandwidth: 400 MHz
    - Average noise density: no greater than (23 °C, 10 MHz to 8 GHz): -146 dBm/Hz
- Environment
    - Operating temperature range: 0 °C to 55 °C
    - Storage temperature range: -40 °C to 71 °C
    - Operating humidity range: 10% to 90%, noncondensing
    - Storage humidity range: 5% to 95%, noncondensing
- Software Compatibility:
    - Work with MATLAB Toolboxes to send/receive IQ samples
    - UHD version 4.1 or later
    - RFNoC
    - GNU Radio
    - C/C++
    - Python
    - OpenEmbedded Linux
    - LabVIEW 2020 or later
    - LabVIEW FPGA 2020 or later