

```
# This configuration file example
shows how to configure the srsRAN
Project gNB to connect to a COTS UE.
As with the
# associated tutorial, this config has
been tested with a OnePlus 8T. A B210
USRP is used as the RF-frontend.
# This config creates a TDD cell with
20 MHz bandwidth in band 78.
# To run the srsRAN Project gNB with
this config, use the following
command:
#   sudo ./gnb -c
gnb_b210_20MHz_oneplus_8t.yaml
```

```
amf:
```

```
  addr: 127.0.0.5
```

```
                                # The address
```

```
or hostname of the AMF.
```

```
  bind_addr: 127.0.0.100
```

```
                                # A local
```

```
IP that the gNB binds to for traffic
from the AMF.
```

```
ru_sdr:
  device_driver: uhd
                                     # The RF
driver name.
  device_args:
type=b200,num_recv_frames=64,num_send_
frames=64 # Optionally pass arguments
to the selected RF driver.
  clock: internal
                                     # Specify the
clock source used by the RF.
  sync:
                                     # Specify the
sync source used by the RF.
  srate: 23.04
                                     # RF sample
rate might need to be adjusted
according to selected bandwidth.
  otw_format: sc12
  tx_gain: 80
                                     # Transmit
gain of the RF might need to adjusted
```

to the given situation.

rx\_gain: 40

# Receive

gain of the RF might need to adjusted  
to the given situation.

cell\_cfg:

dl\_arfcn: 129000

# ARFCN of

the downlink carrier (center  
frequency).

band: 71

# The NR

band.

channel\_bandwidth\_MHz: 10

# Bandwith in

MHz. Number of PRBs will be  
automatically derived.

common\_scs: 15

# Subcarrier

spacing in kHz used for data.

plmn: "00101"

# PLMN

broadcasted by the gNB.

tac: 1

# Tracking

area code (needs to match the core configuration).

pci: 1

# Physical

cell ID.

pcap:

mac\_enable: false

# Set to true

to enable MAC-layer PCAPs.

mac\_filename: /tmp/gnb\_mac.pcap

# Path where

the MAC PCAP is stored.

ngap\_enable: false

# Set to true

to enable NGAP PCAPs.

ngap\_filename: /tmp/gnb\_ngap.pcap

# Path where

the NGAP PCAP is stored.