

## LTE and 5G frequency adjustment is done by limiting only the permissible frequencies

**TW-EAV510Wifi6Ax + 5G**

TW-EAV510W6ax\_3.44.r13.b8.afw

### 5G Industrial model

(fw; TeleWell-industrial-AAA6E6001005-00005U0.N21\_a21. T\_20230407)

### TW-EAV510Wifi 6Ax + 5G

That is, the AT command is used to limit bad LTE frequencies or bad 5G NSA frequencies off

Restriction command specifying only the desired LTE or 5G frequencies

#### LTE cropping

AT+QNWPREFCFG="lte\_band",1:2:3:7:28

Ex: That is, Band 1, 3, 7 and 28 are allowed

The screenshot shows a configuration page with several sections:

- Päälle
- Pois päältä  Päälle
- Käytä 3G/LTE-tikun oletusasetuksia
- AT+QNWPREFCFG="lte\_band",1:2:3:7:28 |
- Päälle
- Pois päältä  Päälle
- internet
- \*99#
- TYHJÄ
- Aina päällä
- Päälle 30 sekuntia [1-86400]
- 8.8.8.8
- Pois päältä  Päälle

## 5G connection frequencies (default)

```
AT+QNWPRECFG="nsa_nr5g_band",1:2:3:5:7:8:12:13:14:18:20:25:26:28:29:30:38:40:41:48:66:70:71:75:76:77:78:79
```

Usually cropping the low-bearing Nr5g 78 out and only allowing Band Nr5G band 28 or vice versa

### Limited 5G frequency selection

```
AT+QNWPRECFG="nsa_nr5g_band",28
```

### At the end of the deposit

if you change back to

**AUTOMATIC frequency selection or NR5G NSA / SA**

then everything will return to normal i.e. use of all frequencies

## TeleWell Industrial model (Latest software update done)

The same adjustment is made by going to linux on Telnet

```
#  
#picocom -b 115200 /dev/ttyUSB2 or USB3
```

```
at<Enter>  
OK
```

### LTE cropping

```
AT+QNWPRECFG="lte_band",1:2:3:7:28<Enter>  
at+cfun=1,1<Enter>
```

Ex: That is, allowing Band 1, 3, 7 and 28 , B20 is LTE 800 Mhz  
**at+cfun=1.1 to restart the device** for the desired bands

All LTE frequencies are by default

```
AT+QNWPRECFG="lte_band",1:2:3:4:5:7:8:12:13:14:17:18:19:20:25:26:28:29:30:32:34:38:39:40:41:42:43:46:48:66:71
```

## 5G limitations

### 5G connection frequencies (default)

```
AT+QNWPREFCFG="nsa_nr5g_band",1:2:3:5:7:8:12:13:14:18:20:25:26:28:29:30:38:40:41:48:66:70:71:75:76:77:78:79  
at+cfun=1,1
```

Usually cropping the low-bearing Nr5g 78 out and only allowing Band Nr5G band 28 or vice versa

### Limited 5G frequency selection

```
AT+QNWPREFCFG="nsa_nr5g_band",28
```

### LTE/4G cropping respectively

```
AT+QNWPREFCFG="lte_band",1:2:3:4:5:7:8:12:13:14:17:18:19:20:25:26:28:29:30:32:34:38:40:41:42:43:46:48:66:66:71  
AT+cfun=1,1<Enter>
```

Let's just select the desired ones e.g. 1,2,3,7,28 etc...

```
AT+QNWPREFCFG="lte_band",1:2:3:7:28<Enter>
```