



Portable 5G System (Network in a Box)

- CU (core unit) / DU (digital unit) / RU (radio unit) integrated
- 5GC integrated
- App Servers(option): IP-PTT
- Standard : 3GPP Release 16
- Freq. Band : TDD, 4.72~4.82GHz (N79)
- Ch. BW. : 20/100 MHz
- MIMO : 2x2
- IP65



Software Specification

| 5G Capability | Release 16 |
|------------------------|--|
| Standard Support | 3GPP 5G-NR Rel-16 |
| Duplexing mode | TDD |
| Peak throughput | DL: 1Gbps, UL: 800 Mbps (DDSUU, 2* 100MHz) |
| Modulation | QPSK, 16QAM, 64QAM, 256QAM |
| Component carrier BW | 20, 40, 100 MHz |
| Max. Bandwidth (OBW) | DL: 2*100 MHz, UL: 2*100 MHz |
| Instantaneous BW (IBW) | 200 MHz |
| Sub-carrier spacing | 30 kHz |
| MIMO layers | DL:2, UL:2 |
| Antennas (Tx/Rx) | 2Tx 2Rx |
| TTI duration | 0.5 ms |
| # Users/TTI | DL/UL: 8 users/TTI |
| Spectrum support | n41, n48, n77, n78, n79 |



Operation and Maintenance

- Remote/local maintenance, based on SSH & web interface
- Remote maintenance
- Online status management
- Performance statistics
- Fault management
- Configuration management
- Local or remote software upgrading and loading
- Logging
- Connectivity diagnosis
- Automatic start and configuration
- Alarm reporting
- KPI Recording
- OAM/EMS integration: NETCONF YANG

Hardware Specification

| Parameter | Value | Comments |
|-----------------------|----------------------|----------|
| Network Interface | 2.5G base-T | |
| Max, Output Power | 30dBm + 30dBm | |
| Installation | Drone(Ceiling) mount | |
| Input Power | DC +12V | |
| Size(WxHxD) [mm] | 400 x 250 x 127 [mm] | |
| Weight | <6kg | |
| Power Consumption | 95 Watt (typical) | |
| Operating Temperature | -30°C ~ +50°C | |