

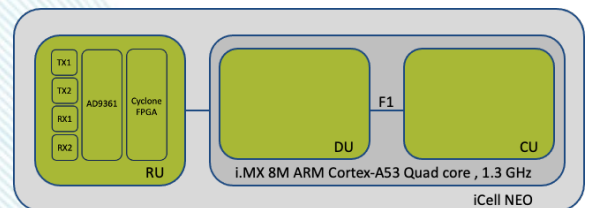
The GEOBLUE iCell NEO 5G-NR integrated gNodeB stands as an all-inclusive outdoor solution for sub-6 GHz 5G-NR, combining a completely software-defined Radio Unit (RU), Distributed Unit (DU), and Central Unit (CU) into a single compact unit. This innovative solution offers unparalleled network flexibility for operators as the software-defined Radio Unit can seamlessly run CU/DU software. Additionally, a variant designed for CBRS is available as part of GEOBLUE's comprehensive 5G CBRS portfolio.

GEOBLUE's compact units for Sub-6 GHz and CBRS allow Private Mobile Network (Non-Public Network) operators to meet the wide range of challenges by providing unparallel network flexibility.



iCell NEO 

All-inclusive outdoor Solution
Full GNodeB Software Defined



Our Software-Defined gNodeB is the key to an agile, cost-effective, and future-proof 5G network.

Flexibility and Upgradability:

Stay ahead of the competition by rapidly deploying new features and functionality without hardware modifications.

Adaptable solutions that respond to evolving use cases and technologies.

Minimize network disruption while maximizing your network's potential.

Cost-Efficiency:

Reduce upfront investment with our cost-effective software-defined gNodeBs.

Optimize resource utilization and extend the life of your hardware.

Easily manage and update software remotely, lowering maintenance costs and streamlining operations.

Network Slicing:

Perfectly tailor your network to various applications with ease.

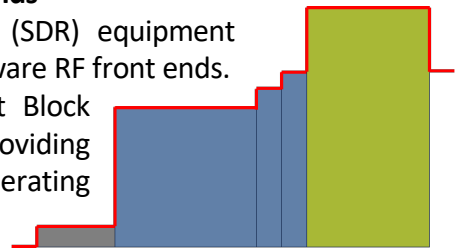
Dynamic resource allocation ensures superior quality of service.

Provide the performance required for diverse network slices.

PORTS AND ANTENNAS	
Antenna 1..4	N-connector female
GPS	Integrated Antenna on top of enclosure
Fronthaul Connector (optical)	SFP+ 10 Gbps
Fronthaul Connector (electrical)	10 Gbps Ethernet
-48V power	Octis connector

Versatile through Varied Hardware RF Front Ends

Our state-of-the-art Software-Defined Radio (SDR) equipment comes equipped with an array of distinct hardware RF front ends. This versatility empowers you to implement Block Edge Masks with precision, for example providing crucial protection for Radiolocation services operating in the 3.1-3.4 GHz band.



FEATURES	
Standard	3GPP R15/R16
Number of Cells	1 x 2T2R
Cell Capacity	200 RRC users per cell
Cell Throughput	DL 634 Mbps, UL 209 Mbps (DDDSU) DL 293 Mbps, UL 574 Mbps (DSUUU)
Operating Frequency Band	N40:2300-2400MHz ; N41:2496-2690MHz ; N48(CBRS): 3550-3700MHz; N77/N78: 3400-3800MHz; N77: 3800-4100MHz;
Channel Bandwidth	5MHz/10MHz/20MHz/40MHz/50MHz
RF Power	2*5W
Duplex Mode	TDD
Subcarrier	30 kHz
Clock Synchronization Method	GPS, 1588V2 clock synchronization
Power Supply	DC -48V (-40.5V to -57V DC)
Power Consumption	< 100W