

CellBox Air 5G mmWave gNodeB

A multi-gigabit 5G mmWave gNodeB of superior stability and excellent economics for outdoor and macro cell deployments.



Specification

Performance	4+ Gbps
Latency	< 5 ms
Deployment	Outdoor, macro cell
Frequency Bands	n257 (26.5 – 29.5 GHz) n258 (24.25 – 27.5 GHz) n261 (27.5 – 28.35 GHz)
Modulation Scheme	64 QAM / 256 QAM
Bandwidth	up to 3 x 400 MHz
Duplex	TDD
Subcarrier Spacing	120 kHz
Antenna	2T2R
Backhaul Interface	10G SFP+
RU Installation	Pole/wall mount (optional)
RU Dimensions	430 x 270 x 75 mm
RU Weight	9.4 kg
RAN Server	2U
Operations & Maintenance	Full Fault Configuration Performance Security Management Ethernet PDU Session
Operating Temperature	-30°C to 55°C

Product Overview

The **CellBox Air gNodeB** is a carrier-grade wireless base station for deploying high-capacity outdoor 5G mmWave networks of outstanding stability and near-zero latency, facilitating ultra-fast connections between the user device and the core network.

It consists of:

- a powerful **CellBox Air 5G mmWave Radio** that accelerates unique algorithms in the 3GPP-compliant L1 Phy layer to provide users with extraordinary mmWave performance;
- a **scalable RAN** that allows extensive flexibility of 5G network deployment, both in outdoor private networks and fixed wireless access scenarios.

The **CellBox Air gNodeB** provides excellent computing power in higher network layers and leverages the disaggregated architecture, which allows for the connection of multiple 5G mmWave radios, cost-efficiently expanding coverage.

It supports all unique Microamp 5G mmWave network features, such as **Integrated Access and Backhaul**, with Backhaul Adaptation Protocol applied in the DU layer, **Mobility Mode**, **Uplink-Heavy System** and **5G LAN**.

Every **CellBox Air gNodeB** is covered by post-deployment service, customer support and warranty.

About Microamp

Microamp designs and delivers multi-gigabit, ultra-low latency 5G mmWave networks based on purpose-built radios. Leveraging deep tech expertise and a network of partners, Microamp empowers industries, System Integrators, MNOs, governments and research institutions with new dimensions of wireless connectivity.