

# CellBox Lite 5G mmWave Radio

5G mmWave radio with a compact form factor design, providing excellent signal stability in the most demanding deployments of indoor private networks.



## Product Overview

The **CellBox Lite** is a lightweight radio for distributing the 5G network signal in the mmWave spectrum in **indoor and distributed small cell scenarios**. It allows for building next-generation 5G mmWave networks of superb stability and excellent economics.

Its compact and light enclosure allows easy installation on poles, walls, moving vehicles, or tethered drones and is perfect for powering indoor private networks. With a small form factor, it can be easily hidden or deployed in hard-to-access areas, such as metro tunnels, backstages of sports venues or industrial warehouses.

The **CellBox Lite 5G mmWave Radio** accelerates unique algorithms in the 3GPP-compliant L1 Phy layer to provide users with extraordinary mmWave performance. It fully supports a distributed architecture, seamlessly interfacing with higher network layers provided by Microamp infrastructure, accelerated on the cloud or external servers, granting new dimensions of deployment flexibility.

The device features a high-power RF front-end that provides an excellent link budget and allows for the equal distribution of the multi-gigabit signal within the whole covered area. It contains an integrated Massive MIMO antenna array and offers advanced beamforming and ultra-sensitivity, which translate into carrier-grade signal stability and coverage. It is adapted to support unique Microamp 5G mmWave network features: **Mobility Mode**, **Uplink-Heavy System** and **5G LAN**.

The **CellBox Lite 5G mmWave Radio** meets the highest certification standards. Every unit is designed and manufactured in the European Union and is covered by post-deployment service, customer support and warranty.

## Specification

Performance	2+ Gbps
Latency	< 5 ms
Deployment	Indoor, distributed small 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	400 MHz
Duplex	TDD
Subcarrier Spacing	120 kHz
O-RAN Category	Split option 7.2x
Antenna	2T2R
Fronthaul Interface	QSFP28 / SFP28
Synchronization	IEEE 1588v2 (PTPv2), SyncE
Power Supply	12 VDC / 6 A
Installation	Pole/wall mount (optional)
Dimensions	350 x 240 x 75 mm
Weight	3.5 kg
Operating Temperature	-30°C to 55°C
IP Grade	IP30

## 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.