

5G Small Cell (5GSC-100)



Enhancing Indoor 5G Experiences

Developed to meet the ever-increasing need for a more robust, high-performance indoor 5G experience, the all-in-one **5G Small Cell (5GSC-100)** has been designed to support future network and mobile generations, bringing enhanced, seamless connectivity experiences to users.

The 5GSC-100 combines multiple functionalities into a single, compact and energy-efficient device. It can be easily deployed, configured and managed, ensuring seamless integration into existing indoor infrastructures.

Most importantly, 5GSC-100 is highly scalable and can accommodate the expansion and densification of indoor networks as demand grows. Being highly versatile, it can support various deployment scenarios, including large office buildings, shopping malls, stadiums, and many other indoor venues.

Application Scenarios

- Smart factories & manufacturing
- Hospitals & healthcare environments
- Retail & commercial spaces
- Transportation platforms & hubs
- Schools & learning environments

Key Features

- **Fully Flexible**
Virtualised, disaggregated and open architecture can be deployed across a wide range of scenarios.
- **Energy Efficient**
Power level can be configured based on surrounding cells and configuration (including 5G CCO with EMS and RIC system).
- **Open Architecture**
Fully compliant with 3GPP and O-RAN Alliance specifications.
- **Plug-and-play**
Low effort, easy installation simply improves overall capacity and throughput.
- **Intelligent Automation**
Automation and manageability with EMS, non-RT RIC and near-RT RIC systems via O1/E2 interface to increase cellular coverage and efficiency.
- **Feature-rich**
Three kinds of time synchronisation methods such as GPS, IEEE 1588v2, and Sync-E solutions.

Technical Specifications

General Specifications	
Band	n78 (3.3 - 3.8 GHz), n79 (4.4 - 5.0 GHz)
3GPP Compliance	Release 15 5G SA
Duplex Mode	TDD
Bandwidth	Customisable: 100MHz, 90MHz, 80MHz etc.
Antenna Type	External Antenna
RF Tx Power	24 dBm
MIMO Order	4x4 MIMO
Tx/Rx Path	4T2R
Modulation	DL: 256 QM / UL: 64 QAM
Synchronisation	GPS, IEEE 1588v2, Sync-E
Fronthaul Connectivity	10G SFP+, 10G RJ45
RIC Management	O1 interface: non-RT / E2 interface: near RT
Active Users	Supporting 32 active users
Physical and Electrical	
Power Supply	54 Vdc
Power Consumption	85 W
Dimensions	303 x 239 x 83 mm
Deployment & Mounting	Wall mount / Ceiling mount
Environmental Consideration	
Ingress Protection	Indoor: IP30
Temperature	-5°C ~ 45°C
Humidity	5 % ~ 95 %