

LTE Small Cell Solutions

MB4420 - All-in-One eNodeB -

The optimal capacity & cost-effective solution that meets diverse customer requirement.

The Pioneer in innovation, Product, Quality and Reliability

Low TCO

- ✓ Small form factor and light weighted
- ✓ Eco-friendly by low power consumption
- ✓ Leading self-configuration solution
- ✓ Fast and easy installation

High Flexibility

- ✓ All-in-one compact architecture
- ✓ Zero foot print implementation
- ✓ Multiple deployment scenario
- ✓ Flexibility in frequency band

High Capacity

- ✓ Hot spot solution for target area
- ✓ Coverage extension & hole solution
- ✓ Applicable for HetNet environment

Product Overview



- NEC's LTE solutions provide an extremely flexible platform that offers operators smooth, simple and seamless migration from their existing networks. NEC offer many options in moving forward and choosing the optimum HW & SW deployment for operators business needs.
- NEC commits to provide LTE solutions that require minimal disruptions and leverage our customers' existing network assets. Our complete range of technologies gives operators a broad choice of LTE migration scenarios.
- The MB4400 series is a compact all-in-one LTE base station system. This series allows for a wide range of installation options in areas with limited space, such as rooftops and compact indoor spaces. The design concept focuses on reducing not only CAPEX, but also OPEX. Ideally, paves the way for more cost effective installation of small cell base stations, help boost capacity and improves overall performance.

*Specifications

Standard Compliance	LTE (3GPP Release-9)
Platform Classification	All-in-One Micro Cell
Duplex Mode	FDD
Frequency Range	1800[MHz], 2600[MHz]
Channel Bandwidth	5, 10, 15, 20 [MHz]
Transmit Power	1~5 [W/ant]
Antenna Port	TX/RX: 2/2 (2x2MIMO)
Modulation Schemes	Downlink: OFDMA (QPSK, 16QAM, 64QAM)
	Uplink: SC-FDMA (QPSK, 16QAM, 64QAM)
Weight	8Kg
Volume	8L
Workable Temperature	-40 to +55 °C
Ingress Protection Class	Outdoor IP65
Number of UE	Active users: 200 users/cell
Input Power	AC 110V/240V, DC -48V
Backhaul interface	GbE x 2 ports (one optical and one electrical)
External Synchronization	GNSS, IEEE1588v2, SyncE
Optional WiFi	802.11a/b/g/n

*Specifications are subject to change without notice