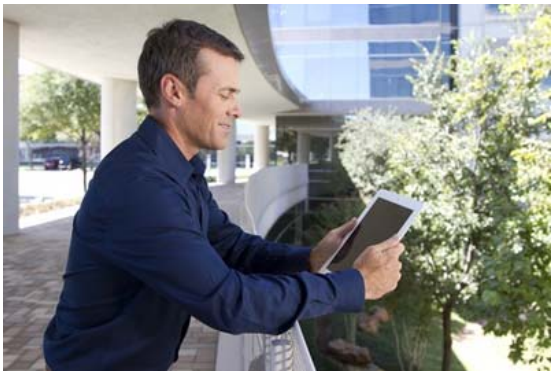
Empowered by Innovation NEC

Empowering the next generation of mobile network

LTE Small Cell Solutions
MB4300 Series - All-in-One eNodeB -



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

NEC's Small Cell Concept

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 (one touch)

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 MB4300 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.

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*Specifications

Standard Compliance	LTE (3GPP Release-9)
Platform Classification	All-in-one Micro Cell
Duplex Mode	FDD
Frequency Range	700 [MHz], 1800[MHz], 2100[MHz], 2600[MHz]
Channel Bandwidth	5, 10, 15, 20 [MHz]
Transmit Power	～5 [W/ant]
Ant Port	TX/RX: 2/2 (2 x 2 MIMO)
Modulation Schemes	Downlink: OFDMA (QPSK, 16QAM, 64QAM)
	Uplink: SC-FDMA (QPSK, 16QAM)
Weight	10Kg
Volume	10L
Dimensions	319(W) × 402(H) × 106.5(D) mm
Operational Temperature	-40 to 55° C
Ingress Protection Class	Outdoor IP66
Number of UE	Active users: 200 users/cell
Input Power	DC-48V, AC100~240V (Option)
Backhaul	Electrical: 1000Base-T, 100Base-TX
	Optical: 1000Base-SX,1000Base-LX

*Specifications are subject to change without notice

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