

Empowering the next generation of mobile network

# All-in-One eNodeB

## MB4300 Series - Small Cell Solution -



Around the world, mobile operators are re-examining their LTE rollout strategy in the face of soaring CAPEX and OPEX experienced with the macro rollout of their 3G networks. NEC's small cell LTE solution gives control back to mobile operators by enabling them to test, adjust and tailor the provision of LTE services according to capacity demand and the profitability of high-data rate services.

## \*Product Overview

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.

## \*Features

- Small form factor, light weight
- High capacity and performance
- Zero foot print, wall /poll mount
- Fan less and air-cooling
- Green & Low power consumption
- Carrier grade quality and reliability
- SON(self-organizing network) managed
- HetNet (heterogeneous network) adaptation
- Scalable OMC
- Electrical and Optical Backhaul interface

## \*Specifications

### Radio & Electrical

Standard Compliance	LTE (3GPP Release-9)
Usage	All-in-one / Micro deployments
Duplex Mode	FDD
Frequency Range	700 [MHz], 1800[MHz], 2600[MHz], AWS
Channel Bandwidth	5, 10, 15, 20 [MHz]
Transmit Power	~ 5 [W] × 2 (MIMO)
Modulation Scheme	Downlink: OFDMA (QPSK, 16QAM, 64QAM) Uplink: SC-FDMA (QPSK, 16QAM)
Weight , Volume	10Kg , 10L
Dimensions	319(W) × 403(H) × 101(D) mm
Ingress protection class	Outdoor IP65
Number of UE	Data : Max 200UE/Cell VoIP: Max 200UE/Cell
Input Power	DC-48V, DC+24V
Service coverage	Radius 50m ~ 15km depend on the spectrum band and environment
Backhaul	Electrical: 1000Base-T Optical: 1000Base-SX,1000Base-LX