

# Residential LTE Small Cell

Robust LTE connectivity with Plug & Play for home



Items	Specification
Concurrent active users	16
Maximum TX Power	50mW/path
MIMO / Antennas	2 x 2 MIMO, External Antenna
Dimensions	212 x 132.4 x 38 (L x H x D / mm)
Weight	600g

Creates LTE signal in home

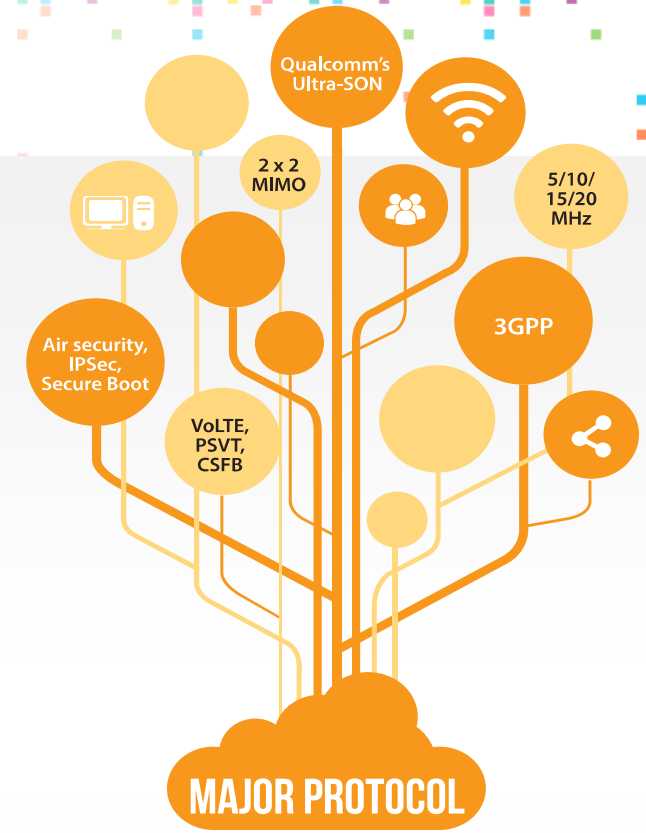
High indoor data throughput with Plug&Play

Robust LTE connectivity with competitive price



# Protocol S/W Features

- 1 3GPP Compliant Release 9/10 LTE HeNB
- 2 Scalable bandwidth with 5/10/15/20MHz
- 3 2 x 2 MIMO
- 4 Air security, IPSec, Secure Boot
- 5 Supports VoLTE, PSVT, CSFB
- 6 Intra/inter-frequency handover, X2 & S1 based handover
- 7 Gigabit Ethernet Backhaul Connection
- 8 IEEE 1588v2 PTP / NTP Synchronization, NL Synchronization, GPS\* Synchronization
- 9 TR-069 standard interface & TR-181/TR-196 standard data model for Management System
- 10 SON



\* GPS Synchronization is for TDD Feature

# Qucell SON Solution

Possible to minimize the OPEX with SON functions

Planning

Deployment

Optimization/Maintenance

Automated  
Planning

Self  
Configuration

Self  
Optimization

Self  
Healing

## SON Functions

### *Automated Planning*

- Planning of eNodeB
- Planning of eNodeB Radio parameters
- Planning of eNodeB Transport parameters

### *Self-Configuration*

- eNodeB/network authentication
- O&M Secure tunnel setup
- Automatic inventory
- Automatic Software download to eNodeB
- Transmission / Radio parameters setup
- Self Test

### *Self-Optimization*

- Neighbor list optimization
- Interference control
- Handover parameter optimization
- QoS parameter optimization
- Load balancing, RACH optimization

### *Self-Healing*

- Hardware/Capacity extension
- Cell/Service outage detection and compensation
- Real-Time performance management
- Subscriber and equipment trace
- Outage compensation for higher level NEs
- Fast recovery of unstable NEM system

# Reference network configuration

