



# 5G APEX ENTERPRISE SMALL CELL eFEMTO 5G

Data Sheet



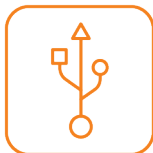
## NEXT GENERATION WIRELESS FOR THE MASSES

Casa Systems' indoor small cell solutions help communication service providers (CSP) deploy networks faster and deliver high performance for faster connections. Casa's high-capacity 4G/5G combined enterprise small cell delivers inbuilding environment supporting up to 128 active users.



### HIGH PERFORMANCE eFEMTO

Supporting up to **128 active users**, this carrier-grade solution is compliant with 3GPP protocol stack.



### PLUG AND PLAY CAPABILITY

**Self-configuration with zero touch, auto self-test**, IPsec establishment, OAM connectivity, GPS location and more. Perfect for creating a localized private network.



### SELF OPTIMIZATION

**Automatic Neighbor relation** function builds and maintains neighborlist for intra, inter frequency and inter-RAT neighbors.

**PCI Optimization** function detects PCI collision and automatically resolves PCI collision.

**Mobility Robustness Optimization** function detects and corrects errors in mobility configuration per 3GPP standards

**RACH Optimization** function self configures RACH parameters improving cell performance.



### ADVANCED SECURITY FEATURES

Create closed subscriber groups, use over non-public internet connections and ensure continuity with **anti-tampering hardware**. Ideal for hospital, government or financial institution use.

Features include - IPSEC: AES, 3DES; PKI: IKEv2 key management, and certificate-based authentication (x.509) secure boot.

# TECHNICAL SPECIFICATIONS

## Key Technical Features

- Supports both LTE and 5G NR bands in one box; B3, B4, B13, B66, n48, n77 and n78
- High output power (LTE: 2x +21dBm, 5G NR: 2x +27dBm), flexible bandwidth support for both LTE and 5G NR
- Less than 50W power consumption at full capacity, DC and POE++ Type 3 input power support
- 2T2R for both LTE and 5G NR, with 256 QAM support on the DL

### GENERAL

- › Max TX Power: up to 27 dBm per TX port
- › Antenna Configuration: 4 Internal or external antennae
- › Backhaul Options : 2.5GigE/1GigE RJ-45
- › Single selectable LTE & 5G NR carriers
- › Highest Modulation: 256 QAM DL/64QAM UL

### PHYSICAL AND ENVIRONMENTAL

- › Dimensions: 255mm x 263 mm x 84mm
- › 2.2-5 RF ports: 2x for LTE; 2x for 5G NR external antenna/DAS
- › SMA ports: GPS Antenna Connection and 1PPS for Iridium Timing Antenna Connection
- › Manual Antenna Switch: Internal / External Antenna
- › Power Port: DC with Adaptor, POE type 3 (802.3bt)
- › RJ-45 Ports: PoE/WAN for Power over Ethernet & Backhaul Connection and LMT port
- › 6 single color LEDs on the front panel for service indication
- › Operational Temperature: 0°C to 50°C
- › IP rating: IP50
- › Cooling: natural convection
- › Weight: 6.8 lb / 3.1 kg

### FREQUENCY BANDS

- › LTE Bands: B3, B4, B13, B66
- › 5G NR : CBRS (n48); n78 (3.3-3.8 GHz); n77 (3.3-4 GHz)
- › Additional bands and band combinations upon request

### OAM

- › TR-069 Auto-Configuration Server (with TR-196v2 and TR-181 Data Model Support)
- › KPI Management standard KPI definition (TS 32.453), custom KPI definition support
- › Fault Management
- › Syslog Server
- › X2 Gateway
- › H(e)MS small cell management system functions (3GPP TS 32.592 and TS 32.593)

### SON / PLUG AND PLAY

- › Self-configuration and optimization
- › Automatic Neighbor Relation (ANR)
- › Physical Cell Identity (PCI) optimization
- › S1/X2 autoconfiguration
- › Mobility robustness optimization (MRO)
- › RACH optimization
- › Self Healing

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