

# wAP LTE kit

The wAP LTE is a small weatherproof wireless access point with a built in cellular modem that supports 2G, 3G and 4G (LTE) connectivity. Connect to the wAP's built-in 802.11b/g/n wireless and access the LTE network from your phone or any other wireless device. The wAP LTE also has one 10/100 Ethernet LAN port for your wired devices.

The waterproof device can be mounted outside your house, in the vehicle, on your porch or anywhere else where you need wireless access from your phone or computer. It also includes a desktop stand so you can put it inside the building near a window.

LTE cards are connected to two internal antennas with u.FL connectors, so if you want, you can unplug the connectors and add your own external LTE antenna for larger coverage. Unit has the several powering options - 9-30v PoE-in by Ethernet port, DC jack and Automotive connector, very handy in mobile devices like car, bus or train.

### Three versions are available:

**RBwAPR-2nD&R11e-LTE** includes LTE modem that supports International LTE bands 1,2,3,7,8,20,38 and 40.

**RBwAPR-2nD&R11e-LTE-US** includes LTE modem that supports LTE bands 2,4,5 and 12, mostly used by mobile operators in United States, Canada and Latin America.

**RBwAPr-2nD** is shipped with without LTE card installed (empty miniPCle slot), so you can use your own LTE card.



## Included



24V 0.8 A Power adapter



Screw kit



PoE injector



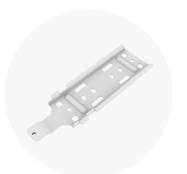
0.35m 4pin Automotive adapter cable



Desktop stand



2x plastic straps



Mount base

# Specifications

|                         |  |  |   |
|-------------------------|--|--|---|
| Product code            | RBwAPR-2nD&R11e-LTE                      | RBwAPR-2nD&R11e-LTE-US   | RBwAPR-2nD                                  |
| CPU                     | QCA9531                                  |  |   |
| CPU nominal frequency   | 650 MHz                                  |  |   |
| CPU core count          | 1  |  |   |
| Size of RAM             | 64 MB                                    |  |   |
| 10/100 Ethernet ports   | 1  |  |   |
| Wireless                | Built-in 2.4 GHz 802.11b/g/n, dual-chain |  |   |
| Wireless antenna gain   | 2 dBi                                    |  |   |
| LTE antenna gain        | 2 - 4.5 dBi (with uFL connector)         |  |   |
| Antenna beam width      | 360°                                     |  |   |
| Wireless chip model     | QCA9531                                  |  |   |
| LTE modem               | Included                                 | Included   | None (slot for miniPCIe LTE card available) |
| LTE category            | 4 (150Mbps Downlink, 50Mbps Uplink)      |  | -   |
| 3G category             | R7 (21Mbps Downlinks, 5.76Mbps Uplink)   | R8 (Cat24 - 42.2Mbps Downlink)<br>R7 (Cat14 - 21.1Mbps Downlink) | -   |
| 2G category             | Class12                                  | -  | -   |
| SIM slot                | 1  |  |   |
| PoE in                  | Yes                                      |  |   |
| Supported input voltage | 9 V - 30 V (Passive PoE)                 |  |   |
| Dimensions              | 185 x 85 x 30 mm                         |  |   |
| Operating temperature   | -40°C .. +60°C tested                    |  |   |
| License level           | 4  |  |   |
| Operating System        | RouterOS                                 |  |   |
| Max Power consumption   | 8 W                                      |  |   |

## Wireless specifications

| RATE     | Tx (dBm) | Rx (dBm) |
|----------|----------|----------|
| 1MBit/s  | 22       | -96      |
| 11MBit/s | 22       | -89      |
| 6MBit/s  | 20       | -93      |
| 54MBit/s | 18       | -74      |
| MCS0     | 20       | -93      |
| MCS7     | 16       | -71      |

## Supported bands

| RBwAPR-2nD&R11e-LTE    |  |
|------------------------|--|
| LTE (FDD) bands        | 1(2100)/2(1900)/3(1800)/7(2600)/8(900)/20(800) |
| LTE (TDD) bands        | 38(2600)/40(2300)                              |
| 3G bands               | 1(2100)/2(1900)/5(800)/8(900)                  |
| 2G bands               | 2(1900)/3(1800)/5(800)/8(900)                  |
| RBwAPR-2nD&R11e-LTE-US |  |
| LTE (FDD) bands        | 2(1900)/4(1700)/5(850)/12(700)                 |
| 3G bands               | 2(1900)/5(800)                                 |

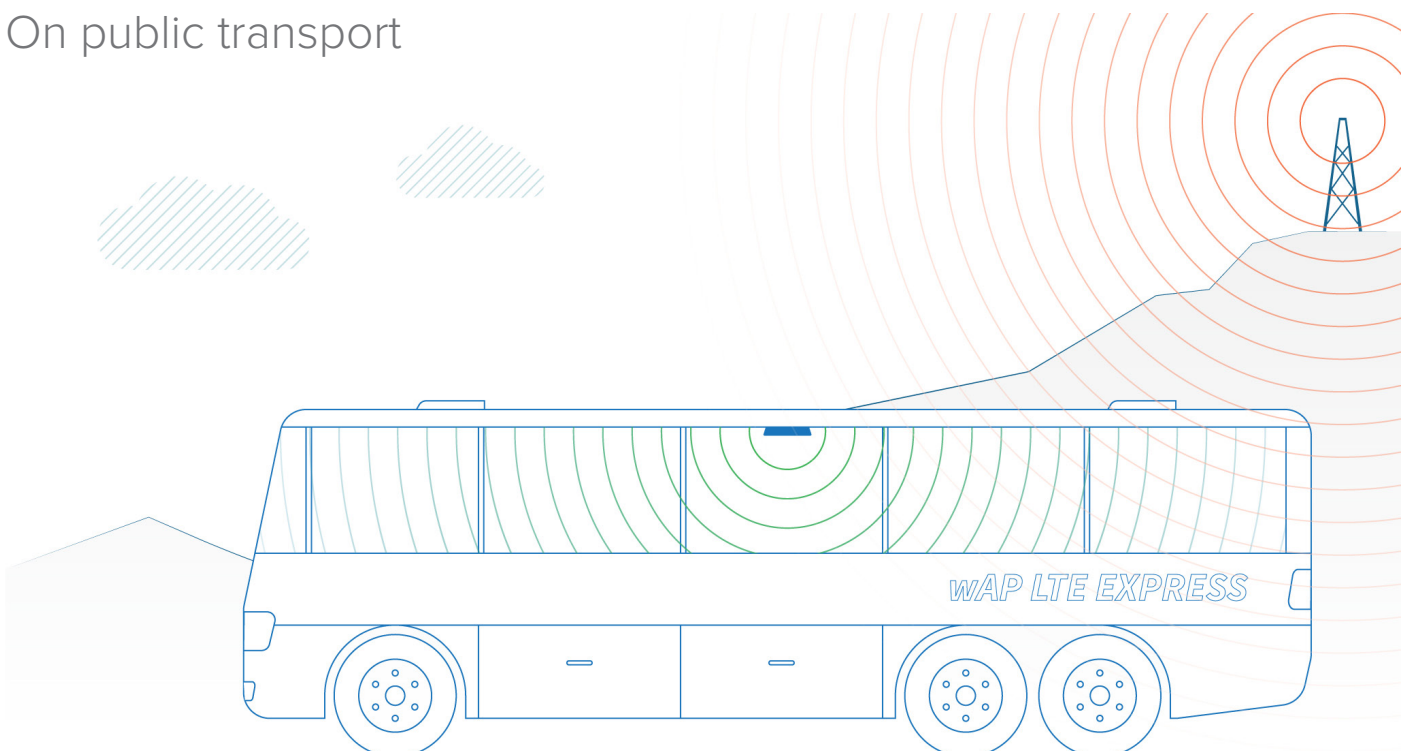
For home use



On the pole



On public transport





Use it on the ceiling!

The wAP comes bundled with all the necessary things to be mounted on the ceiling. Cable knockout panel provides ability to run the cable unseen through the ceiling.



Use it on the wall!

Wall mounting is easy thanks to the provided drill template and mounting screws. Everything included.

