# LtAP series

A compact 4G (LTE) capable weatherproof wireless access point




2.4 AND 5 GHZ WIRELESS / 4G(LTE) / GIGABIT ETHERNET / BUILT-IN GPS

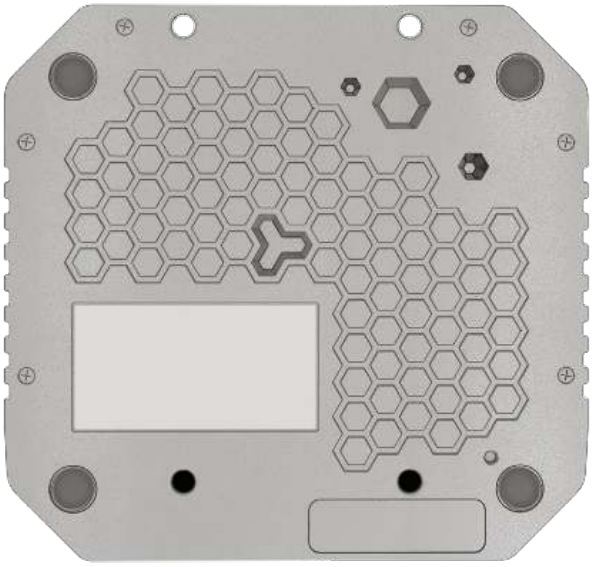
# LtAP series

The LtAP LTE kit is a compact weatherproof wireless access point with a built in cellular modem that supports 4G (LTE) connectivity.

Connect to the LtAP's built-in high power 2.4 GHz 802.11b/g/n wireless and access the LTE network from your phone or any other wireless device. The LtAP LTE kit also has one Gigabit Ethernet LAN port for wired devices. The RS232 serial port gives you console access for debugging.



- 2.4 GHz AP in a rugged case
- LTE installed in miniPCIe slot
- Second miniPCIe slot for expansions
- Three Mini SIM slots
- Gigabit Ethernet port



- Built-in GPS
- Many powering options (DC jack, POE-in, automotive)
- Serial port and full size USB for other devices
- Perfect for cars or outdoor mobile applications

The unit comes with two miniPCIe slots (one already populated with LTE modem), offering many expansion options. For example, you can install second LTE modem for redundancy, or 5 GHz interface to have dual concurrent 2.4 GHz / 5 Ghz AP + LTE. Unit is powered by Dual-Core 880 MHz CPU and 128 MB RAM to deal with heavy loads.

LtAP has a special enclosure with a wall mounting kit, three miniSIM slots to alternate between cellular providers, and integrated GNSS support (GPS, GLONASS, BeiDou, Galileo), making this a perfect device for use in moving vehicles like cars, buses or trains. External GPS antenna is available for ordering separately (not included, product code ACGPSA).

The LTE card is 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 better coverage. The unit has several powering options: 12-30 V PoE-in by Ethernet port, DC jack and automotive connector.

Use the built in GPS module to track the location of your vehicle in real time, we have even provided a simple tracking application example in the RouterOS documentation, to help you start development of your platform.




Three models are available:

- **LtAP LTE kit** (RBLtAP-2HnD&R11e-LTE) with R11e-LTE modem for International bands 1, 2, 3, 7, 8, 20, 38 and 40.
- **LtAP 4G kit** (RBLtAP-2HnD&R11e-4G) with R11e-4G modem for International bands 3, 7, 20, 31, 41n, 42 and 43.
- **LtAP** (RBLtAP-2HnD) without LTE card.

## Specifications

| Product code | RBLtAP-2HnD | RBLtAP-2HnD&R11e-LTE | RBLtAP-2HnD&R11e-4G |
|---|---|---|---|
| CPU | Dual-core MediaTek MT7621 880 MHz | | |
| Size of RAM | 128 MB | | |
| Storage | 16 MB flash | | |
| 10/100/1000 Ethernet ports | 1 | | |
| Wireless | 2.4 GHz 802.11b/g/n dual-chain | | |
| Wireless regulations | Specific frequency range will be limited by country regulations | | |
| Wireless antenna max gain | 2.5 dBi | | |
| LTE antenna max gain | 4 dBi (with u.FL connector) | | |
| Antenna beam width | 360° | | |
| LTE category | - | 4 (150 Mbps Downlink, 50 Mbps Uplink) | |
| 3G category | - | R7 (21 Mbps Downlinks, 5.76 Mbps Uplink) | - |
| 2G category | - | Class12 | - |
| Supported input voltage | DC jack or automotive connector 12 - 30 V | | |
| PoE in | Passive PoE 12 - 30 V | | |
| Dimensions | 170 x 162 x 40 mm | | |
| Operating temperature | -40°C .. +70°C | | |
| Operating system | RouterOS, License level 4 | | |
| Mini SIM slots | 3 | | |
| MiniPCIe slot #1 | Top slot supports PCIe and USB 2.0 cards, but is shared with the USB 2.0 type A port (can use either USB port or miniPCIe slot at the same time) | | |
| MiniPCIe slot #2 | Bottom slot supports only USB (2.0 and 3.0) miniPCIe modems (no PCIe support) | | |
| USB port | 1 USB 2.0 port type A (can only be used if miniPCIE slot #1 is not used) | | |
| Built-in GPS | Yes (external antenna option via MMCX connector) | | |
| Serial port | RS232 | | |
| Max power consumption | 24 W | | |

## Supported bands

**LtAP LTE kit**

| | |
|---|---|
| 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(850)/8(900) |
| 2G bands | 2(1900)/3(1800)/5(850)/8(900) |

## Supported bands

**LtAP 4G kit**

| | |
|---|---|
| LTE (FDD) bands | 3/7/20/31 (1800/2600/800/450) |
| LTE (TDD) bands | 41n/42/43 (2500/3500/3700) |

## Wireless specifications

| Rate (2.4 GHz) | Tx (dBm) | Rx (dBm) |
|---|---|---|
| 1MBit/s | 25 | -100 |
| 11MBit/s | 25 | -94 |
| 6MBit/s | 26 | -96 |
| 54MBit/s | 23 | -78 |
| MCS0 | 26 | -96 |
| MCS7 | 22 | -73 |

## Included parts



24 V 1.2 A
power adapter



K-67
fastening set



Automotive
cable