LtAP mini series

The LtAP mini LTE kit is a small weatherproof wireless access point with a built in cellular modem that supports 2G (international version only), 3G and 4G (LTE) connectivity. It is also available separately, without the modem, so you can use your own.

Connect to the LtAP mini's built-in 802.11b/g/n wireless and access the LTE network from your phone or any other wireless device. The LtAP mini LTE also has one 10/100 Ethernet LAN port for your wired devices. The RS232 serial port gives you console access for debugging.



- 2.4 GHz AP in a rugged case
- miniPCIe for LTE
- Two SIM slots
- Built in GPS
- Serial port for other devices
- Perfect for cars or outdoor mobile applications

LtAP mini has a special enclosure with with a wall mounting kit, two SIM slots to alternate between cellular providers, and integrated GPS support, 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: 10-57 V PoE-in by Ethernet port, DC jack and microUSB.

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.



PoE injector



24 V 1.2 A power adapter



External DC cable



Screw kit



Four versions are available:

- **LtAP mini LTE kit (RB912R-2nD-LTm&R11e-LTE)** includes LTE modem that supports International LTE bands 1,2,3,7,8,20,38 and 40.
- **LtAP mini LTE kit-US (RB912R-2nD-LTm&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.
- **LtAP mini 4G kit (RB912R-2nD-LTm&R11e-4G**) includes LTE modem that supports LTE FDD bands 3 (1800MHz), 7 (2600MHz), 20 (800MHz) and 31 (450MHz), as well as LTE TDD bands 41n (2500MHz), 42 (3500MHz) and 43 (3700MHz).
- **LtAP mini (RB912R-2nD-LTm)** is shipped with without LTE card installed (empty miniPCI-e slot), so you can use your own LTE card.

Specifications

Product code	RB912R-2nD-LTm&R11e-LTE	RB912R-2nD-LTm&R11e-LTE-US	RB912R-2nD-LTm&R11e-4G
CPU	QCA9531 650 MHz		
Size of RAM	64 MB		
Storage	16 MB		
10/100 Ethernet ports	1		
Wireless	Built-in 2.4 GHz 802.11b/g/n, dual-chain		
Wireless regulations	Specific frequency range can be limited by country regulations		
Antenna beam width	360°		
Wireless antenna gain	1.5 dBi		
GPS	Built-in MT3337V, with u.FL RF connector (external antenna required)		
PoE in	Yes		
SIM slot	2 Mini SIM slots		
LTE category	4 (150Mbps Downlink, 50Mbps Uplink)		
3G category	R7 (21Mbps Downlinks, 5.76Mbps Uplink)	R8 (Cat24 - 42.2Mbps Downlink) R7 (Cat14 - 21.1Mbps Downlink)	-
2G category	Class12		-
LTE antenna gain	3.5 dBi (with uFL connector)		
Serial port	RS232 (shared with GPS port)		
Supported input voltage	PoE in: 10 V - 57 V (Passive PoE and 802.3af/at with unshielded cable) DC jack: 8 - 30 V MicroUSB: 5 V		
Dimensions	139 x 77 x 28,5 mm		
Operating temperature	-40°C .. +70°C tested		
Operating System	RouterOS, License level 4		
Max Power consumption	9 W		

Supported bands

RB912R-2nD-LTm&R11e-LTE	
LTE (FDD) bands	1/2/3/7/8/20 (2100/1900/1800/2600/900/800)
LTE (TDD) bands	38/40 (2600/2300)
3G bands	1/2/5/8 (2100/1900/800/900)
2G bands	2/3/5/8 (1900/1800/800/900)

RB912R-2nD-LTm&R11e-LTE-US	
LTE (FDD) bands	2(1900)/4(1700)/5(850)/12(700)
3G bands	2(1900)/5(850)

RB912R-2nD-LTm&R11e-4G	
LTE (FDD) bands	3/7/20/31 (1800/2600/800/450)
LTE (TDD) bands	41n/42/43 (2500/3500/3700)

Wireless specifications

1MBit/s	22	-96
11MBit/s	22	-89
6MBit/s	20	-93
54MBit/s	18	-74
MCS0	20	-93
MCS7	16	-71
MCS7	16	-71