

LTE LabKit™

The LTE LabKit, with the free Hosted Core service, provides the full functionality of an LTE network. It can also be used with the YateUCN or any other MME, for a standalone LTE network.

It is intended for mobile network operator labs, IoT and M2M application development, mobile phone vendors, and researchers. The LTE LabKit allows the easy and stable development of experiments and test procedures with the YateENB.



The LTE LabKit includes YateBTS and can also be run in GSM mode, either with the Hosted Core, with YateUCN or as a GSM Network in a Box (NiB). When operating in GSM mode, the specifications are the same as for the YateBTS LabKit.

LTE Specifications

Radio Interface	LTE Release 12, FDD
Available bands	Filters and antennas provided for bands 5 and 8; can operate any FDD band up to 3.8 GHz
Operating Bandwidth	1.4, 2, 5, 10, 15, 20 MHz
MAC specs	localized or distributed VRBs, proportional fairness scheduling
Maximum connected UEs	no fixed limit
Antenna configuration	1x1 (SISO)
Network interface	IPv4; IPv6
Network protocols	IP

GSM Specifications

Radio Interface	phase 2+ GSM/GPRS
Services support	GSM-FR speech, SMS
Operating Bandwidth	GSM850/PGSM900/DCS1800/PCS1900
Call capacity	7 concurrent full rate call
Service range	30m

Hardware specifications

Power supply 12V 5A DC

Network interface Ethernet / IP

Output power up to 70mW (15dBm)

Operation & Management specifications

Software YateENB, YateBTS (lab versions)

Management interfaces Web UI, Yate telnet console, SNMP (if configured)

Operating system Linux, RPM-based

What you get

- 1 LabKit (mini-ITX PC + BladeRF + software)
- 1 LabKit power adaptor
- 2 antennas for 900/1800 MHz operation
- Filters for LTE Band 5 (GSM 850) and LTE Band 8 (EGSM 900)
- 2 smartphones and chargers
- use of the [hosted YateUCN core network](#)
- 10 SIMs configured for Hosted Core for LTE and GSM, and for GSM NiB.
- 1 WiFi antenna

About us

Legba, Inc. provides innovative infrastructure for mobile operators.

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