



freeRAN

4G LTE-M Base Station for U.S. Unlicensed Band 902-928MHz

FCC Certified

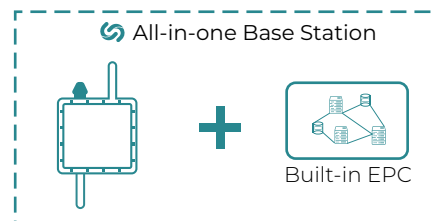


Deploy Private LTE in the U.S. unlicensed ISM band. freeRAN integrates a full software 3GPP Release 15 Radio Access Network (RAN) optimized for standalone 4G LTE-M in 3MHz bandwidth in the U.S. unlicensed 902-928MHz frequencies.

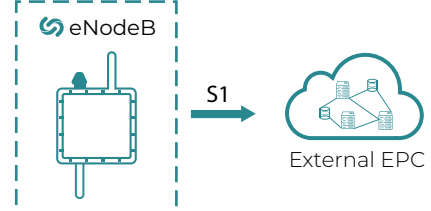
End Terminals
(Compatible with all 4G Cat-M1 Band 8 devices)



LTE-M



OR



Contact Us



info@ubiik.com



Features

- Software Defined Radio (SDR)
- Integrated Evolved Packet Core (EPC) and Home Subscriber Server (HSS)
- S1 interface for external EPC, S6a interface for external HSS
- eDRX/PSM
- Non-anchor carriers (R14)
- Early Data Transmission (R15)
- RLC Unacknowledged Mode (R15)

Specifications

Performance	3GPP Release 15 LTE Cat-M1 SDR (quad-core ARM Cortex A53 embedded Linux Ubuntu) > 100 concurrent RRC connections
Bandwidth	Cat-M1 3MHz (FDD)
Memory	8GB eMMC flash and 2GB DDR4 RAM
Frequency Bands	902-928MHz (FCC Part 15.247)
Tx Output Power	30dBm maximum
GPS	GPS
Antenna peak gain	2.65 dBi
Backhaul Specifications	Ethernet (10/100/1000 Mbps) or LTE Cat-1
LED Indicators	1 x System power 1 x Network connection status (Ethernet or Cat-1)
I/O Interfaces	2 x external antennas for GPS and Cat-M1 1 x external antenna for Cat-1 backhaul 1 x Gigabit Ethernet port, LAN/WAN 1 x Reset button, 1 x USIM slot, 1 x Micro SD slot, 1 x PoE++
Physical and Environmental	Dimensions: 10" x 10" x 3.28" Operating temperature: -4° to 131°F Storage temperature: -4° to 158°F Operating humidity: 5% to 90% non-condensing Ingress protection rating: IP67



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