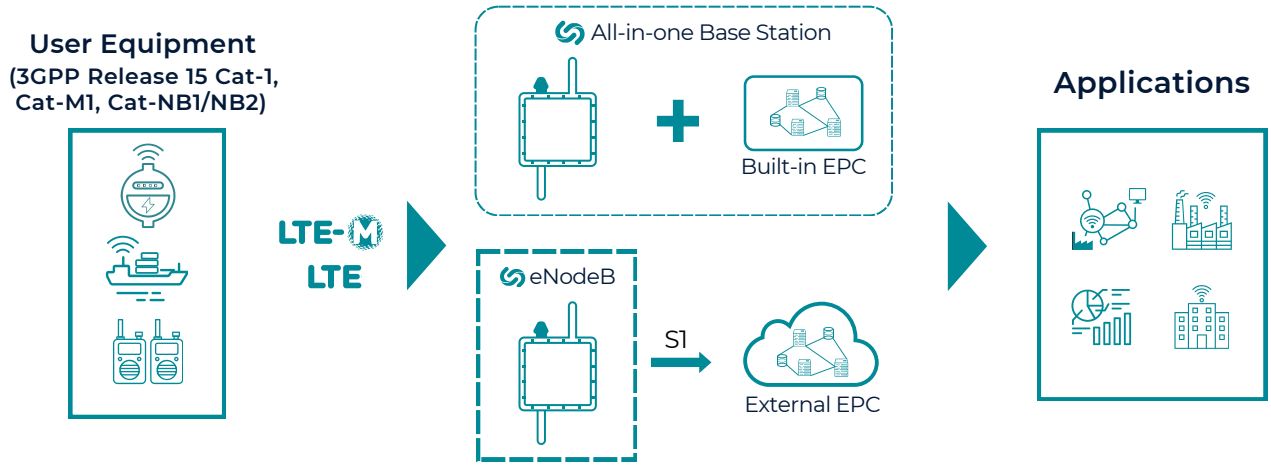
UBIIK

goRAN™

World-first Release 15 Cellular IoT (LTE/LTE-M) Base Station for Private and Hybrid LTE Networks

About

goRAN™ integrates a full-software Release 15 Radio Access Network (RAN) optimized for private networks, with multi-carrier standalone LTE-M in 1.4MHz, 3MHz and 5MHz bandwidths. It can operate as an eNodeB with an external Evolved Packet Core (EPC), as well as an all-in-one base station with its built-in EPC and integrated HSS (external HSS via S6a is also supported).



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

Standard	LTE-M FDD RAN (3GPP Release 15 compliant) SDR (quad-core ARM Cortex A53 embedded Linux Ubuntu)
Frequency bands	B111 (DL: 1820-1830 MHz, UL: 1800-1810 MHz)
Channel Bandwidth	LTE-M: 1.4/3/5 MHz
Modulation	DL: QPSK, 16QAM UL: QPSK, 16QAM
Multiplexing	SISO
Tx Power	30 dBm maximum
Receive Sensitivity	-100 dBm maximum
Synchronization	GPS, IEEE 1588v2
Backhual	LTE Cat-4 Ethernet (10/100/1000 Mbps)
Operation and Maintenance	Fault Management Configuration Management Performance Management Software Upgrade
Power Consumption	< 40W
Power Supply	PoE++ (60W)
I/O interfaces	1 x External antennas for LTE-M 1 x External antenna for GPS 1 x External antenna for LTE backhaul 1 x Gigabit Ethernet port, LAN/WAN 1 x Reset button 1 x USIM slot 1 x Micro SD slot 1 x LED for system power 1 x LED for network connection (Ethernet or LTE)
Physical and environmental	Dimensions: 340mm × 245mm x 135mm (13.39” × 9.65” x 5.3”) Operating temperature: -40°C to 55°C (-40°F to 131°F) Storage temperature: -40°C to 70°C (-40°F to 158°F) Operating humidity: 5% to 90% non-condensing Ingress protection rating: IP65 Weight with antennas: 8.4 kg (18.52 lbs.)

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