UBIIK

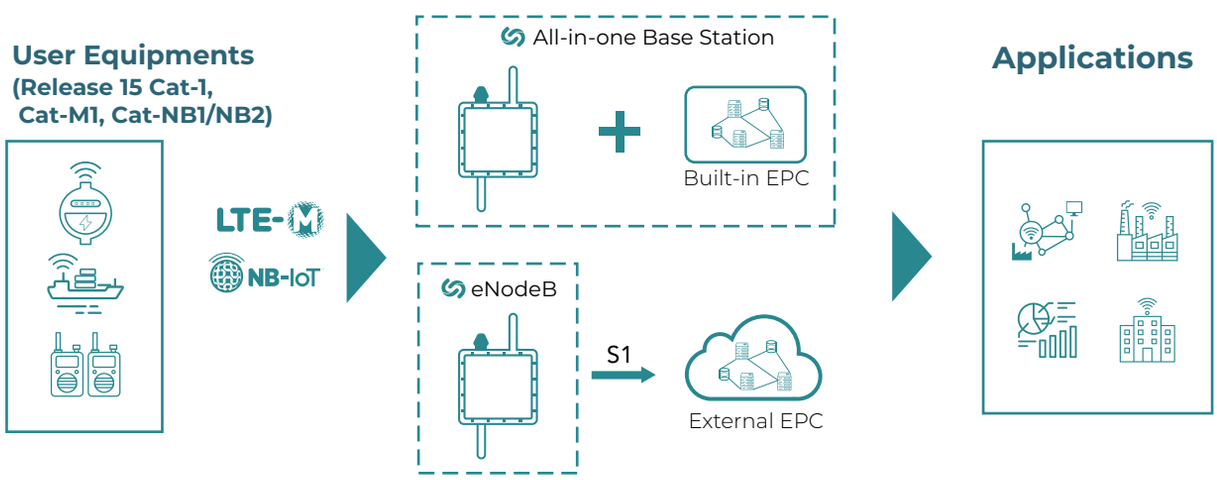
goRAN

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

This device is awaiting authorization as required by the rules of the Federal Communications Commission.

About

goRAN integrates a full-software Release 15 Radio Access Network (RAN) optimized for private networks, with multi-carrier standalone NB-IoT support as well as standalone LTE-M in 1.4MHz, 3MHz and 5MHz bandwidths, including VoLTE. 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

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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)
- VoLTE

Specifications

Performance	3GPP Release 15 Cat-M1, Cat-NB1/2, Cat-1bis SDR (quad-core ARM Cortex A53 embedded Linux Ubuntu) > 200 concurrent RRC connections
Bandwidth	Cat-M1/Cat-1/1bis: 1.4/3/5MHz (TDD/FDD) NB-IoT: 180kHz (FDD) in-band, guard band and standalone
Memory	8GB eMMC flash and 2GB DDR4
Frequency Bands	Band 2 (1.9GHz), Band 3 (1.8GHz), Band 8 (900MHz), Band 20 (800MHz), Band 24 (1.6GHz), Band 28 (700MHz), Band 31 (450MHz), Band 72 (450MHz), Band 87 (410MHz)
Tx Power	27dBm typical
GPS	BeiDou, GLONASS, GPS / QZSS
4G antenna peak gain	-1.8~3.5 dBi
Backhaul	Ethernet (10/100/1000 Mbps) or LTE Cat-1 (optional)
Indicators	1 x System power 1 x Network connection status (Ethernet or Cat-1)
Interfaces	2 x external antennas for GPS and Cat-M1/NB-IoT 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: 254mm x 254mm x 83.4mm Operating temperature: -20°C to 55°C Storage temperature: -20°C to 70°C Operating humidity: 5% to 90% non-condensing Ingress protection rating: IP67

Scan for more info

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