



goRAN™

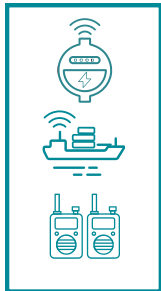
World-first Release 15 Cellular IoT (LTE/LTE-M/NB-IoT) Base Station for Private and Hybrid LTE Networks



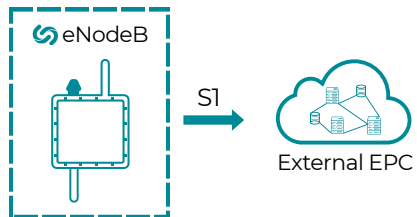
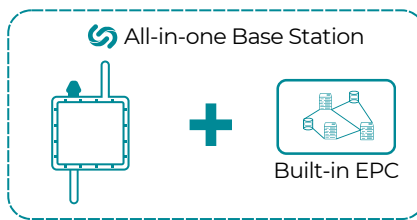
About

goRAN™ integrates a full-software Release 15 Radio Access Network (RAN) optimized for private networks, with multi-carrier standalone 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).

User Equipment
(3GPP Release 15 Cat-1,
Cat-M1, Cat-NB1/NB2)



LTE-M
NB-IoT



Applications



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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 LTE, LTE-M, Cat-NB1/2, Cat-1bis SDR (quad-core ARM Cortex A53 embedded Linux Ubuntu) > 200 concurrent RRC connections
Bandwidth	Legacy LTE/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 (1.9 GHz), Band 3 (1.8 GHz), Band 8 (900 MHz), Band 20 (800 MHz), Band 24 (1.6 GHz), Band 28 (700 MHz), Band 31 (450 MHz), Band 54 (1.67 GHz), Band 72 (450 MHz), Band 87 (410MHz), Band 103 (700 MHz), Band 106 (900 MHz), Canada 1.8GHz
Tx Power	30 dBm max. Typical
Power Consumption	< 40W
Power Supply	PoE++ (60W)
Timing/ frequency acquisition	GPS
4G antenna peak gain	-1.8~3.5 dBi
Antenna connection	Fronthaul: external high gain antenna with N-Type connector Backhaul: external tri-band LTE antenna with N-Type connector
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 LTE Cat-M1 1 x External antenna for LTE 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	Unit Weight: < 15.4 lbs (7 kg) Dimensions: 10" x 10" x 3.28" (254mm x 254mm x 83.4mm) Operating temperature: -40°F to 131°F (-40°C to 55°C) Storage temperature: -40°F to 158°F (-40°C to 70°C) Operating humidity: 5% to 90% non-considering Ingress protection rating: IP67



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