

What is 5G?

Intelligent technology that can connect the world without boundaries.



Faster internet access



1 million units/km2 Massive IoT

extreme Mobile BroadBand eMBB 3 dimensions URLLC mMTC Ultra Reliable Low Latency Communication massive Machine-Type Communication



LoRaWAN vs 5G LPWAN

LoRaWAN vs NB-IoT/LTE-M

BATTERY LIFE

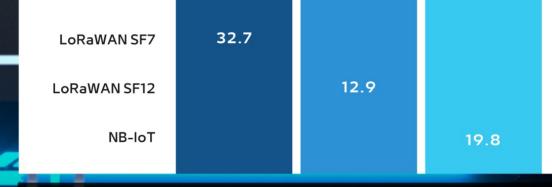
LoRaWAN: Superior low power standard designed for LPWAN with field proven 10-15+ year battery life

NB-IoT/LTE-M: Complex 3GPP protocol tuned down for LPWAN does not meet target performance required for battery constrained use cases



BATTERY LIFE

YEARS

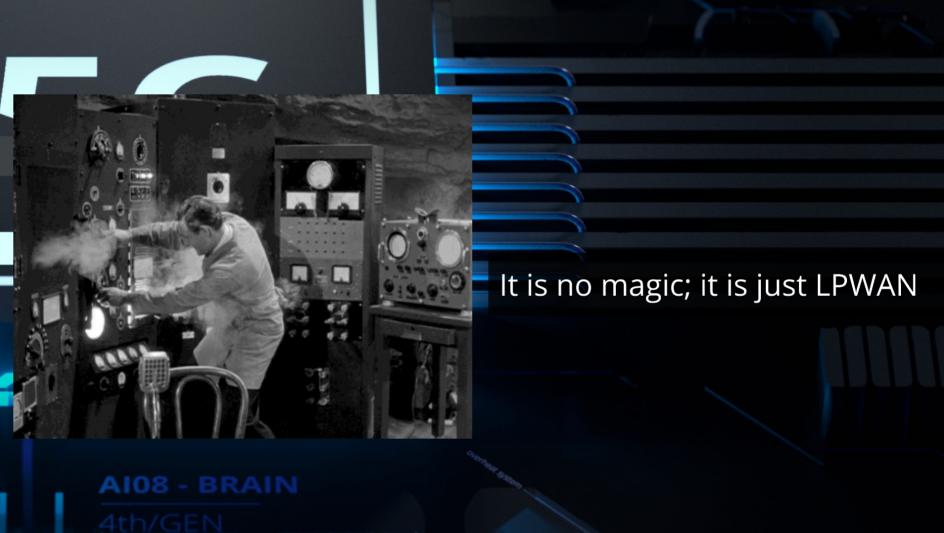


KTH, Royal Institute of Technology Stockholm, "Degree Project In Electrical Engineering, Comparison of LoRa and NBIoT in Terms of Power Consumption"

host device ID: 2569ch



University in Lund, Faculty of Engineering Low Power Wide Area Network (LPWAN) Technologies for Industrial IoT Applications





LoRaWAN

VS

5G

LoRaWAN

5G

LoRaWAN

5G

More devices



Devices

Democraticed



Easily available







Licensed band

Affordable private networks



More private private networks





5G NR+ -w/o base stations



