wireless logic

LTE Cat-1

LTE Cat-1 is a mature and globally supported 4G technology. Hardware costs and power consumption are slightly higher than with LTE-M and NB-IoT but it has several benefits. Businesses will have immediate global support, mobility and more capable technology in terms of bandwidth, latency, eSIM compatibility and total cost of ownership.

LTE Cat-1 BIS is a single antenna variant of LTE Cat-1 which helps reduce cost and space.

Find out why our customers use Cat-1... ▶

LTE Cat-1 BIS (Cat-1) Benefits

A strong alternative to 2G, 3G and LPWAN.

Global

Cat-1 is a standard 4G technology (LTE Release 13). Existing roaming agreements provide global network access with a single SIM SKU.

Performance and fleet management

Lower latency, higher bandwidth and cell handover (mobility) make Cat-1 a strong alternative for 2G/3G, especially for applications which have higher data budgets and are managed via OTA updates.

Energy and cost efficient

While Cat-1 has slightly higher hardware costs and energy consumption compared to other LPWAN technologies, it is significantly more effective than Cat-4 and Cat-6.

Supports wide range of IoT applications

Consider for low power IoT devices that require higher speed or two-way data transfers or mobility. Can support 3-5 year battery life or applications that use rechargeable batteries.

Considerations
for deploying Cat-1

> **Global coverage**
> *More flexible and consistent coverage, unlike other LPWAN technologies*

> **Multiple networks per country**
> *Typically 2/3/4 networks per country based on standard 4G roaming agreements*

> **Lower total cost of ownership**
> *Faster time to market. Have options to manage device firmware and eSIM profiles OTA*

> **Shorter battery life**
> *Will support 3-5 year battery life or longer with rechargeable batteries*

> **2G/3G network sunsetting**
> *Cat-1 is a good alternative to 2G/3G in many use-cases*

Explore applications we're connecting with Cat-1... ➤

Applications we're **connecting** with Cat-1...

Micromobility

eScooters and eBikes have rechargeable or swappable batteries. Cat-1 enables a lower total cost of ownership with a single SKU manufacturing approach, access to multiple MNO networks in all target markets and supports OTA fleet management.

Asset tracking

Business adopting Cat-1 can reduce their time to market. Consistent 4G coverage provides confidence around network coverage for assets that need to be tracked across international boundaries without risk of down time.

Safety and security

Applications that monitor people's safety and security at work and in the home have traditionally used SMS/voice/data services on 2G/3G. With network sunsetting, Cat-1 is an alternative solution for these types of applications including wearables, lone worker devices, healthcare monitors, emergency call systems.

Your applications will be **secure**

Cat-1 is a highly secure and cost-effective way to provide connectivity to a wide range of IoT applications including battery or mains powered devices.

Cat-1 is compatible with specific modules which our IoT solution experts can advise on and comes with LTE grade security as standard, keeping your data and network secure.

Talk to one of our solution experts about which cellular solutions would be right for your deployment...

Why Wireless Logic for Cat-1?

IoT Expertise
Knowledge and expertise from our IoT experts to help you select the right solution and keep total cost of ownership low.

MNO Partnerships
Network choice and access to MNO expertise and test labs for your applications

Ultimate Control
Cat-1 services fully integrated into our SIM management platform, **SIMPro**.

Secure
Multi-layer security that builds on the high security standards built into Cat-1. ISO27001 certified.

Rapid Deployment
Fast and expert deployment, solution design, customer service and tech support.

Contact us today...
to talk to an expert or get a quote

Call: **0330 056 3300**   Email: **hello@wirelesslogic.com**   Web: **wirelesslogic.com**

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