

5G SIM

Future-proofing subscriber privacy

5G

5G has arrived, and protecting subscriber privacy is critical in today's ultra-connected world. At IDEMIA we're always a few steps ahead ensuring security within our secure elements. Chosen by some of the largest mobile network operators worldwide, we are actively shipping 5G SIM cards for Standalone 5G networks.

5G: "a real game-changer"

Driven by enhanced mobile broadband, massive Internet of Things (IoT) and critical communication requirements, 5G is offering a new wave of innovation and business opportunities for mobile network operators (MNOs), handset and device makers.

With higher throughput and lower latency, 5G technology brings more power to the punch by dramatically improving network connectivity with faster, more stable and secure connections. It primarily benefits demanding use cases such as ultra-high definition broadcast and multi-user interactions to smart cities, remote surgery or vehicle-to-everything (V2X) communications. It also enables a new range of services and experiences that are more responsive, and transparent.

As pressure on the network keeps growing, the secure authentication of mobile devices and new connected objects accessing the network will be of paramount importance – even more so now, than ever before.

Level up your game with the 5G SIM by IDEMIA

In all its form factors (UICC, eUICC), the SIM remains the key solution in providing secure authentication to protect user credentials, leveraging on tamper-resistant hardware. The 5G SIM by IDEMIA answers the new security and performance demands of all 5G service segments. Combined with a full range of 5G-enabling solutions it is the best choice on the market whenever and wherever security, privacy and quality of service matter.



Enhanced subscriber privacy

With IMSI encryption in our 5G SIM, MNOs can better protect end-users against location tracking and interception of mobile communications by fraudsters, preventing data breaches while giving subscribers peace of mind.



Fast access to 5G services

With a properly configured 5G SIM we allow MNOs to seamlessly connect mobile devices and IoT connected objects, ensuring that subscribers immediately get access to 5G services.

Why IDEMIA?

Trusted by 500 Mobile Operators, including some of the largest groups worldwide, and with factories across the globe, we are ready to support the rapid distribution of 5G SIM cards. We also offer a full range of 5G enabling solutions such as OTA Quality of Experience monitoring and security services for the IoT, including for critical and massive communication.



Better usage of radio resources

Thanks to our 5G SIM, MNOs can now redirect their subscribers to another network layer when the one they are using is overloaded.

IDEMIA, your partner for 5G deployment success

Providing maximum user experience with higher data rate even in challenging network conditions remains the first priority of 5G deployment. However, even with a 5G capable device, users may not enjoy 5G services straight away if their SIM does not have the 5G radio identifier. At IDEMIA, we are ready to support our mobile operator clients for the rapid distribution of 5G SIM to their subscribers. We can also help accelerate the transition by deploying over-the-air the necessary 5G parameters in 5G-ready SIM cards already in the field.

Moreover, to help efficiently measure the end-user quality of experience on brand new 5G networks, our SIM cards include a monitoring agent. This solution is agnostic of the device OS and can provide information even when the device is not active, to monitor coverage for example. This may prove particularly relevant as coverage and quality of service may not be optimal at launch, giving precious insights into investment focus. And of course, the Key Performance Indicators gathered by this SIM agent are anonymized to ensure subscribers' privacy is protected at all time.



Available 5G SIM form factors:



Removable

the UICC or the removable SIM as we know it today



Embedded

the eUICC or eSIM, a reprogrammable SIM card



Cutting-edge technology

- Fully compliant with latest 5G standards
 - Massive IoT
 - Critical communication
 - Enhanced mobile broadband
 - Highest level of security leveraging on tamper resistant hardware
- Dedicated algorithms for all use cases
- IMSI privacy
- On-board quality of service and OTA Quality of Experience monitoring



And tomorrow?

The 5G SIM by IDEMIA will keep evolving along with ongoing new standards to address V2X use cases and further improve connectivity performances.