

Enabling the Fully Connected World

SAMSUNG

With blazing speed, minimal latency, and massive connectivity, 5G will transform the way we live, work, get around, and much more.

With a long legacy of mobile innovation, Samsung is making 5G a reality to deliver its benefits to consumers, businesses, and cities—wherever they are.

With 2G, we helped put the phone in your pocket. With 3G and 4G, we put the internet in your pocket. With 5G, we'll not only put wireless fiber in your pocket, but also in your car, home, office, and across your city.

With speeds up to 20 times faster than 4G and super low, 1ms latency, 5G can support up to a million devices per square kilometer and will usher in the next generation of mobile networks—a world in which everything has fast, instantaneous connectivity to our surroundings.

Benefits of 5G



Enhanced Mobile Broadband

Peak speed 20 Gbps
Edge area 100 Mbps

5G



Ultra Reliable & Low Latency

1 ms latency
 10^{-9} error-rate,
ultra reliability



Massive Machine-Type Communications

1 million device
connections/km²
High energy efficiency

Samsung is uniquely positioned to lead the transition to 5G because of our:

END-TO-END TECHNOLOGY: Samsung makes all the parts integral to 5G—chips, network equipment, and devices, including smartphones, smart TVs, appliances, and automotive solutions—all with industry-leading security standards. This includes the first miniaturized RF chipset and modem integral to 5G. No other company can provide this entire 5G ecosystem with a trusted global supply chain.

LEGACY OF INNOVATION: We're building on more than 35 years of experience in designing and engineering communications solutions. Leveraging our experience in the implementation of 2G, 3G, and 4G technologies, we're taking the lead in 5G as well.

REACH, SCALE, AND PARTNERSHIPS: We understand the importance of collaboration and work with partners across the industry to offer products and solutions that bring 5G networks online.

Our 5G innovations continue to progress across the country and around the world. In 2019 alone, we:

Sold 2 million 5G smartphones worldwide.

Played a leading role in the launch of 5G NR by all three South Korean carriers in April.

Teamed up with KDDI (Japan) to deliver 5G solutions to power their 5G network following the completion of exciting trials with KDDI, where we demonstrated 4K streaming on multiple 5G-enabled tablets at a baseball stadium and tested 5G video drones to provide public safety first responders with more tools in smart cities.

Teamed up with SK Telecom (Korea) to showcase 5G at a race track, transmitting real-time video from a racing car moving at more than 130 mph.

Kicked off a project with AT&T Business and Samsung Austin Semiconductor in Texas to create a 5G research space for the manufacturing industry and apply insights to the next-generation Smart Factory.

In partnership with AT&T, we connected fans of all types to super-charged experiences from interacting with live sports on 5G in the world's first 5G stadium to the first live broadcast on 5G.

Samsung: A Timeline of World Firsts

1996

2G CDMA

2004

3G WCDMA

2006

4G mobile
WiMax
(OFDMA)

2011

4G LTE
small cell

2012

4G VoLTE
5G mmWave
testbed

2014

4G eMBMS
5G mmWave
multi-cell
handover
(100 km/hour)

2016

5G mmWave
high-speed mobility
(150 km/hour)

2017

5G mmWave
commercial
trials (8 U.S.
cities)
Fastest 5G
handover
(192 km/hour)

2018

5G mmWave
commercial
service (launch
in second half
of 2018)
FCC authorized
5G commercial
solutions

2019

Galaxy S10 5G
Note10+ 5G
Next generation
5G chipset
Mobile and fixed
5G networks live
in U.S. cities
Industry-first 5G New
Radio (NR) integrated
Access Unit (AU)
supporting 28GHz
spectrum

Why Samsung is Betting on 5G

We have a bold vision for tomorrow: a world of connected devices, working seamlessly to make life safer, more manageable and a whole lot more fun.

Picture 5G applied to everyday life. The Internet of Things, smart cities, and connected vehicles are safer because they can communicate with each other and with their surroundings. Picture all of your data and services fully accessible, anytime and anywhere.

That picture of a fully connected world is why Samsung has been making big bets on 5G technology, which will become the framework for a new connected lifestyle. And it's why we have been investing in companies that give us even greater ability to navigate the 5G future.

We've also made an important commitment: All of our devices will be IoT-enabled and intelligent by 2020. In fact, we're ahead of schedule; 90% of our devices are already IoT-enabled.

Samsung is Driving 5G Adoption Across the U.S.

In 2018, Samsung became the first company to receive FCC approval of its 5G end-to-end network portfolio—a critical step toward making 5G a reality.

In October 2018, Samsung 5G products supported the launch of Verizon 5G Home, the world's first 5G commercial broadband service.

In fall 2018, AT&T selected Samsung as a 5G New Radio (NR) provider for AT&T's expanded 5G rollout in 2019.

In summer 2019, Samsung supported commercial mobile 5G NR launches for Sprint and Verizon.

In 2019, we put the power of 5G in consumers' hands with our first 5G flagship smartphones, the Galaxy S10 5G and Note10+ 5G.

We're Just Getting Started

Drawing on our rich history and working with the best industry partners, we are excited to help deliver transformative solutions for a bright 5G future.

Samsung believes that, just as the right policies and regulations have played a pivotal role in facilitating each generation of mobile technology, they will also help drive rapid deployment of 5G.

We look forward to working with our government partners to more spectrum to commercial use, streamline regulations on infrastructure deployment, and promote end-to-end security.

Samsung
Note10+5G



5G Outdoor
Router



28GHz 5G
Access Unit



5G CPE
Unit



5G
Modem



Galaxy
S10 5G

