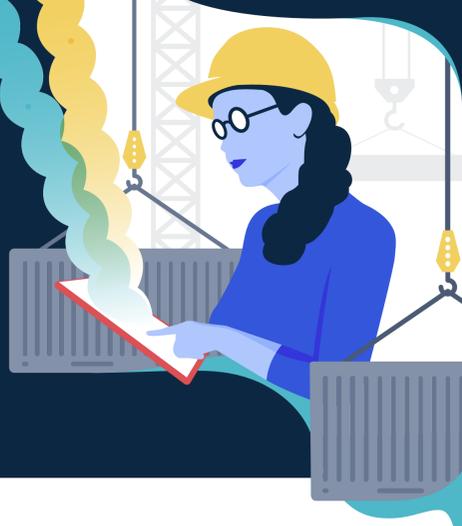


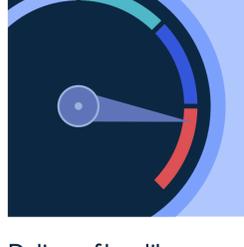
Qualcomm

Transforming industry with 5G

Qualcomm Technologies' breakthroughs are poised to drive higher productivity and new innovations by incorporating wireless connectivity into a broad range of industrial settings.



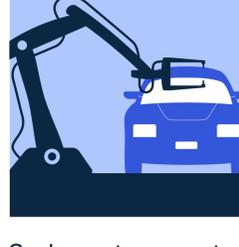
Unified 5G connectivity scales across use cases



Delivers fiber-like speed and capacity



Scales down to support massive amounts of IoT sensors



Scales up to support demanding industrial applications



Qualcomm Technologies solves the challenges to achieve ultra-reliable industrial IoT

Challenge

Breakthrough

Wireless control of complex manufacturing requires fast and precise timing



Fiber-like speeds with deterministic latency of a millisecond over the air

Mission-critical equipment requires reliable performance



Ultra-reliability where fewer than one packet in a million is lost

Radio signals can easily be blocked in facilities with moving metal parts



Coordinated multi-point (CoMP) over multiple small-cells provides redundancy

Private 5G networks provide local services with dedicated equipment



Optimized services independent of public networks



Facility owner retains full control



Secure with sensitive data staying local

3 main spectrum approaches



Unlicensed spectrum, globally available



Mobile network operators allocate portion of licensed spectrum



Dedicated spectrum for local deployments (available in some regions)



Improved efficiency for a variety of industries with 5G



Wind farms

Performance data from every part of the turbines and environmental sensors thanks to 5G IoT



Energy

Seamless, photorealistic XR for field repairs and training thanks to fiber-like speeds



Container ports

Intelligent shipping thanks to ubiquitous, deep coverage reaching all goods and containers



Warehouse operations

Semi-autonomous AGV and precise asset tracking thanks to on-device AI and wireless positioning



Factory of the future

Configurable, wireless factory floors thanks to ultra-reliable millisecond communication replacing wired connections

Qualcomm Technologies advances the state of 5G IIoT

Qualcomm Technologies identifies the critical challenges, applies cutting-edge research, creates breakthrough inventions, defines solutions, and collaborates with industry to bring 5G IIoT from testbed to market.

To learn more, please visit www.qualcomm.com/5g

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