Ericsson Industry Connect

Advanced connectivity
for Industry 4.0

ERICSSON

Improve the way your connected devices connect

Ericsson Industry Connect is a private cellular network for industrial environments. It enables high device density, predictable latency and reliable coverage throughout the factory or warehouse. It is highly resistant to intrusions and attacks, so critical operations meet the most stringent security requirements.

Why go cellular?

Be more agile. Doing away with cables makes it quicker, easier and more cost-effective to reconfigure production lines and supply chains to meet customer demand. Plus, cellular connectivity makes retooling the way you do business uncomplicated, whether it's the ease and convenience of bringing on a new line or changing up the warehouse picking and packing process to prepare for a peak season.

Be more productive. Advanced connectivity enhances process monitoring and product inspection and enables remote assistance from experts helping to address production issues in real-time. Advanced connectivity also makes it easier to extend both uptime and equipment life. Real-time data enables predictive maintenance to ensure that equipment is up and running for longer periods of time.

Be safer and more secure. From automated guided vehicles (AGVs) with collision avoidance to remote control of equipment in hazardous areas, advanced connectivity reduces risks in industrial environments. For additional security, the enterprise has full control over which devices can run on the network.

Be ready. Introduce cellular connectivity today and be prepared to transition to 5G as soon as it rolls out.

High reliability

Cover large industrial environments without disrupting operations because cellular connectivity eliminates dead spots.

Device density

Support more connected devices per square meter to expand the use of automation.

Consistent latency

Speed reaction times for apps like collision avoidance and real-time navigation — even across varying network loads.

Robust security

Control all connected devices because you write the SIM cards and choose whether to keep all data on-premise for heightened security.

Predictable cost

Know exactly what to budget for higher capacity that is always on. No extra per-gigabyte data charges.

Proven technology

Rely on what works. For more than a decade, LTE technology has been connecting cell phones the world over.

Connecting farther, faster

Ericsson Industry Connect makes it possible to connect cyber-physical systems to enable faster, more flexible and more efficient processes that lift manufacturing productivity and profitability and boost competitive advantage.

Easy to deploy

What does it take to move to Industry Connect? Just a couple of units of rack space and a few Ericsson Radio Dots installed on the ceiling of your facility. Once the Radio Dots are in place, you'll be up and running in 2 hours or less.

Technical data

Characteristics

Range	— Up to 6000 sqm (64,500 sq ft) with base package with eight cellular access points. — Expansion packages are available to address larger areas
Device support	Base package tested with up to 1000 simultaneously connected devices

Radio

Ericsson Radio Dot System (RDS)	Ericsson Radio Baseband — Customized with pre-configured Radio Area Network software to meet individual factory or warehouse requirements — Coordinates operating small cells in large multi-antenna indoor environments: combined cell, carrier aggregation, lean carrier, uplink and mixed mode Ericsson Indoor Radio Unit (IRU) redundancy — Located between the customer site fixed IP network and the LTE radio network provided by the Ericsson Radio System components. — Integrates the Industry Connect network with an LTE packet core network and its management. Ericsson Radio Dots — Discrete and easy to install with a single CAT 6a/7 cable per Radio Dot — Powered and controlled by Radio Baseband and IRU — Available radio options: LTE Band 48 (CBRS), LTE Band 7, other bands available on request U.S.: LTE Band 48 Europe: LTE Band 7

Network management and control

Network controller	— High availability with 1+1 redundancy — Based on dual server to operate cellular packet core network software — In-service upgrades
Network monitoring service	— Available through Ericsson Network Operations Centers
Network management	— Self-care portal with intuitive user interface — Centralized dashboard for a single overview of all sites — Overview and configuration of all network equipment including self-discovery — Per site analytics with counters and key performance indicators (KPIs) — Management of network segments to separate device traffic and manage up- and down-link traffic quotas

SIM card management

SIM card writer with SIM cards	— Instant and secure self-provisioning of SIM cards for cellular devices with uSIM technology

Product base packages

Network Controller base package	— 2 industrial network controller — 1 SIM card writer — 50 SIM cards

Radio base package (choose one, other bands available)

LTE B48 package	— 1 RBS 6601, IDU 5209, IRU — 1 Radio Power Unit — 1 IRU with remote IRU enclosure — 8 Radio Dots 4442, Band 48
LTE B7 package	— 1 RBS 6601, IDU 5209, IRU — 1 Radio Power Unit — 8 Radio Dots 2243, Band 7

Optional Radio Dot extension packages

LTE B48 extension package	— 2 IRU with remote IRU enclosure — 8 Radio Dots 4442, Band 48
LTE B7 extension package	— 1 IRU with remote IRU enclosure — 8 Radio Dots 2243, Band 7

Why Ericsson
— Ericsson is one of the most active companies in cellular network standardization (3GPP) and a driver of 5G. Ericsson Radio Systems are 5G-ready and have been since 2015.
— Ericsson cellular networks are used by Tier-1 operators worldwide. Forty percent of the global mobile traffic is running through Ericsson cellular networks, connecting about 2.5 billion subscribers.
— Ericsson engages with major industry players globally and is fast-tracking smart manufacturing in its own factories in Sweden, Estonia, China and Brazil.
— Ericsson is present in more than 180 countries worldwide with its 95,000 employees.