Intel is Building the Supply Chain of the Future

At Intel, we successfully operate one of the most complex, advanced supply chains in the world.

16,000+ suppliers

100 countries

5,000 SKUs

1 BILLION units shipped

We draw on our own experience and success with advanced IoT technologies to help other companies solve their supply chain challenges.

For Intel's innovation, logistics management, and sustainability accomplishments, Intel is ranked 6th in Gartner*'s 2019 Supply Chain top 25. Building on our success, we work hard every day to make our supply-chain more efficient and cost-effective—and to help our partners and customers improve their operations.

Learn more about:
Making supply chains smarter:
www.intel.com/supplychainiot

Intel Connected Logistics Platform:
https://www.intel.com/content/www/us/en/internet-of-things/industrial-iot/logistics/freight-management.html

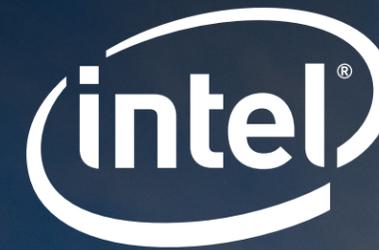**Contact:** SupplyChainIoT@intel.com

Product Specifications

The Intel Connected Logistics Platform uses advanced IoT technology—ICLP sensors (tags) and gateways—to continuously gather and transmit near real-time data and turn it into actionable insights that can help you transform your supply chain and improve your business. Check the product specifications below or contact SupplyChainIoT@intel.com for additional information.

Intel® Connected Logistics Platform Tag Specifications

Item	Description
MCU	Clock: 32 MHz
	Memory: 512KB internal flash
	RAM: 16KB SRAM
OS	BareMetal*
Connectivity	802.15.4 Proprietary (Intel-Zigbee*)
	NFC
Sensor	Light (400nm –700nm, 0.01 Lux -83K Lux)
	Temperature (-20C to +50C at +/- 1C)
	Humidity (0% - 100% +/-5%)
	Shock / Tilt (+/- 16G)
Battery	CR2450 (Coin Cell)
Battery Life	80-100 days Varies with use case
Operating Temp.	-20°C to 50°C
Dimension	76 x 66 x 11mm
EMC Cert.	CE, FCC
Safety Cert.	UL CB, IEC60950
Ecology	RoHS and REACH compliant

Intel® Connected Logistics Platform Gateway Specifications

Item	Description
Processor	Intel Atom® x3 (SoFIA 3G-R)
	Module: Telit HE922
	Cache: 16 Kbytes L1
	Memory: eMMC interface 8GB SoM
	RAM: 8GB LDDR3 SoM
OS	Android* M
External IO Port	Extension battery connector
	Connector probe pin
	Micro-USB
Connectivity	3G and WiFi
	GPS / GNSS U-blox M8C with internal antenna
	Zigbee (to ICLP Tag)
	NFC + antenna
Sensors	Light (400nm –700nm, 0.01 Lux -83K Lux)
	Temperature (-20C to +50C at +/- 1C)
	Humidity (0% - 100% +/-5%)
	Shock / Tilt (+/- 16G)
	Air Pressure (260 – 1260 hPa)
Battery	3930 mAH, 3.85 Vdc (Li-Polymer)
	Rechargeable
Battery Life	20 to 40 days [varies with use case]
Operating Temp.	-20°C to 50°C
Dimension	20 x 82 x 145 mm
EMC and RF Cert.	CE, FCC, MPE, PTCRB, GCF
Safety Cert.	UL CB, IEC60950
Ecology	RoHS and REACH Compliant

REGAIN CONTROL OVER YOUR SHIPMENTS WITH COST-EFFICIENT, CONTINUOUS MONITORING

Intel® Connected Logistics Platform helps make your supply chain smarter to increase efficiency, manage risk and reduce costs

Intelligent solutions based on the Intel® Connected Logistics Platform offer continuous monitoring and data-driven insights to transform your supply chain and deliver more value to your partners, customers and employees.

What is the Intel® Connected Logistics Platform?

The Intel Connected Logistics Platform (ICLP) is a pre-certified, ready-to-deploy, track-and-trace solution that uses IoT sensors, gateways, and a proprietary wireless sensor network (WSN) to enable you to monitor the location and condition of freight in near real-time across your supply chain.

ICLP offers capabilities that are critical for the future enterprise supply chain. While current track-and-trace offerings are expensive, lack intelligence, and are not scalable, ICLP provides a cost-effective, intelligent, scalable, and more secure solution that eliminates those challenges.
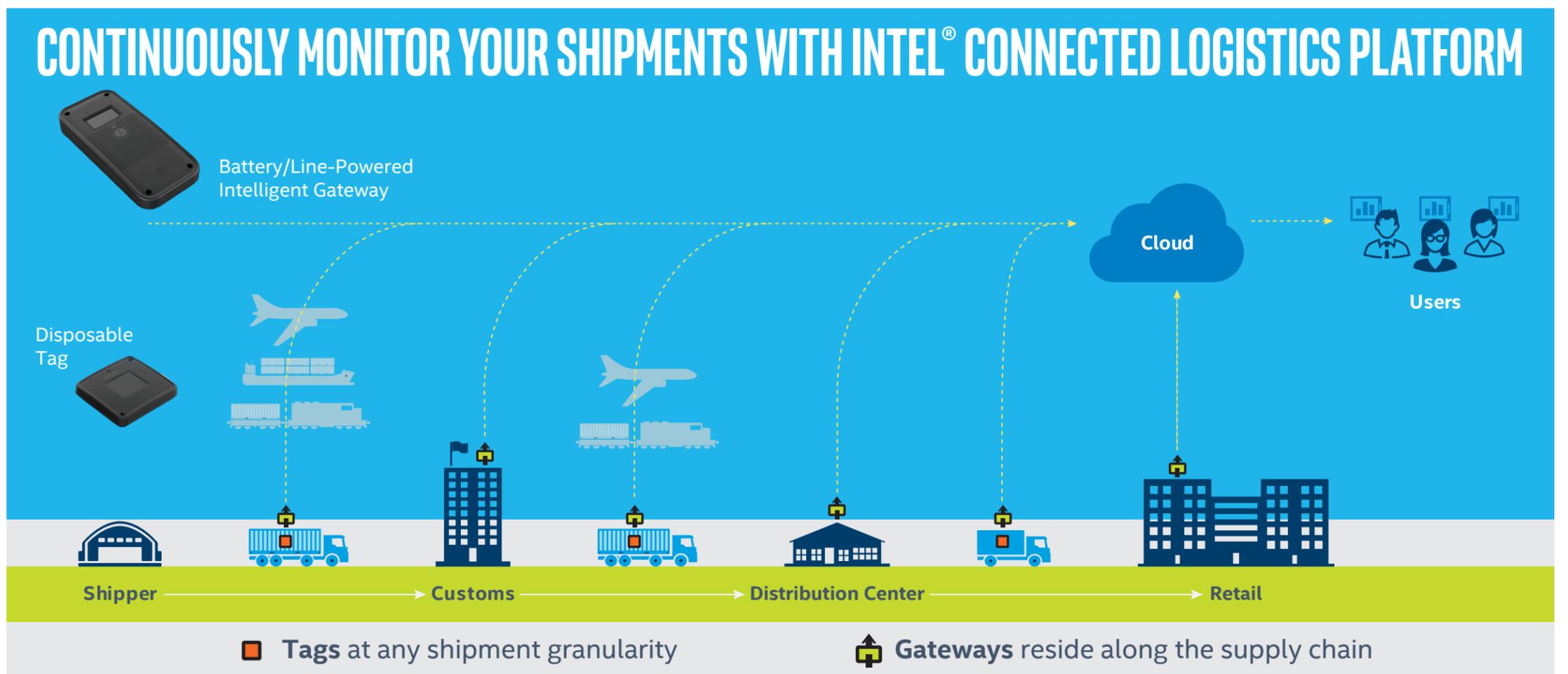
With ICLP, you can use your data to mitigate risk, perform trend analytics to identify opportunities, and automate decision-making and shipment tracking. ICLP improves the tracking of freight, from origin to destination. The solution provides near real-time visibility of goods as they move through the supply chain—from capital equipment and high-value items, such as electronics and diamonds, to those that require special handling, such as perishables and pharmaceuticals. ICLP provides near real-time alerts and notifications about location, temperature, humidity, tilt, shock, time in transit, package separation, potential theft, and other critical factors.

ICLP is Ready for Implementation Today

ICLP offers the visibility you need to understand the conditions that cause damage, while taking steps to mitigate future impact and avoid costly loss or claims.

Because ICLP is designed for flexible configuration, it is easy to integrate the solution with your current systems and incorporate data from your existing sensors and devices. ICLP adapts to your business model, not the other way around.

The pre-certified ICLP track-and-trace solution is available and ready to be implemented today, so you can start transforming your supply chain immediately for greater efficiency, substantial cost savings, and competitive advantage.

CONTINUOUSLY MONITOR YOUR SHIPMENTS WITH INTEL® CONNECTED LOGISTICS PLATFORM

Battery/Line-Powered Intelligent Gateway

Disposable Tag

Cloud

Users

Shipper → Customs → Distribution Center → Retail

■ **Tags** at any shipment granularity   ⬛ **Gateways** reside along the supply chain

HOW CAN ICLP HELP ME IMPROVE MY BUSINESS?

The Intel Connected Logistics Platform provides a scalable, cost-effective, intelligent and highly secure track-and-trace solution that companies can use to improve their supply chain operations while managing risk and reducing costs. By continuously monitoring the location and condition of goods across the supply chain—from warehouse to final destination—ICLP provides data-driven insights that enable you to detect potential problems early and make informed decisions. Because ICLP offers near real-time visibility that allows you to see exactly what is happening across your supply chain, you can respond proactively and make strategic decisions as the needs of your business change.

REDUCE THEFT AND LOSS
ICLP gives you near real-time visibility to monitor path deviations at every stage as shipments move through the supply chain

PROACTIVELY MITIGATE RISK
Continuous monitoring of package location, condition and integrity helps you detect damage or loss early and take immediate action

INCREASE SHIPMENT VISIBILITY
Thorough and continuous updates on the location and condition of packages enables you to actively adjust routing and deliveries in near real-time

REDUCE WASTE AND SPOILAGE
Alerts about unexpected changes in the location or condition of shipments lets you identify suboptimal shipping conditions and take action to minimize waste and potential loss

IMPROVE SECURITY
Strong data encryption helps you protect sensitive shipment information and ensure the integrity of your business