Start your intelligent edge solutions here today

intel.

Intel® Edge Software Hub

Streamline and accelerate development of innovative solutions with edge AI—with a one-stop resource for optimized software and offerings for key edge use cases.

Explore how businesses are deploying edge intelligence in the real world. Find a use case that solves a specific industry problem for your need and select reference implementations with complete sample applications, including preconfigured software on the Intel® Edge Software Hub.

Download a prevalidated software package and access tutorials and samples to build out your solution.

See a catalog of recommended devices and developer kits that deliver optimized performance with our software offerings.

Speed up time to market for your solutions and explore deployment and scale opportunities with Intel ecosystem programs and partners.

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Break down barriers to edge intelligence

Explore an array of resources, including tutorials and sample code, easy-to-use software tools, and prevalidated and configurable software offerings. Intel is invested in optimizing vertical-specific edge AI applications, including simplifying implementation of edge-to-cloud developer workflows with preintegrated components from CSPs.

Leverage software packages and reference implementations specific for edge use cases

The Intel Edge Software Hub provides developers with specialized software packages and the confidence of knowing the modules have already been tested, validated, and integrated into the solution. These packages were built specifically to satisfy the requirements for various edge use cases across verticals and come from Intel, open source communities, and ecosystem partners.

Extend cloud applications to the edge

The Intel Edge Software Hub is making it simpler for developers to benefit from edge-to-cloud workflow integration. The Intel® Distribution of OpenVINO™ toolkit and marquee CSP offerings allow developers to extend their cloud applications to seamlessly develop and deploy solutions at the edge.

Enhance solution value with hardware from the diverse Intel® portfolio

The software tools and packages are optimized for our extensive hardware portfolio for development of intelligent edge solutions. To speed decision-making, we provide a list of devices and developer kits that work best with the software. The offerings include everything from compute for low-power cameras on the factory floor to accelerators to run inference on on-premises servers.

Scale up quickly with end-to-end solutions from Intel and ecosystem partners

The Intel Edge Software Hub offers resources to enterprises of all sizes developing IoT and intelligent edge solutions. The tools and packages make it easy to create Intel® RFP Ready Kits and Intel® IoT Market Ready Solutions that are hardened and deployable commercial offerings. Additional capabilities and solutions from partners and the ecosystem will give you more options and more-powerful solutions going forward.

Explore use cases to see how businesses are deploying edge intelligence, then download reference implementations with the preconfigured software you need.

Cities and transportation

Intelligent traffic management
Converge visual intelligence (AI) and wireless workloads at traffic intersections. This containerized approach is hosted in an OpenNESS edge node along with software stacks to host a 5G RAN.

Fleet driver management
Use computer vision to help monitor driver behavior and alertness. Provide real-time alerts to the driver and fleet manager, plus long-term analytics about drivers, vehicles, and routes.

Retail

Automated checkout
Use computer vision to detect changes in inventory from multiple sensors and enable automated checkout.

Loss detection
Apply machine learning to connect multiple sensors that accurately detect items at self-checkout systems.

Industrial controls

Machine controller consolidation
Consolidate local HMI, logic control, and motion control by integrating platform management, orchestration, virtualization, and containerization. Purpose-built machine controllers are converged as manageable and virtualized nodes to increase device availability, interoperability, and flexibility.

Process automation
Combine time-sensitive connectivity, edge compute, information technology, and software engineering to maximize process efficiency and define optimal strategies for running an oil and gas manufacturing or utility operation.

Industrial AI

Rotor bearing defect detector
Predict performance issues with manufacturing equipment. Then perform local or cloud analytics on issues found and predict when failures might occur.

Predictive analytics
Use historical data to predict future outcomes for product quality, equipment maintenance, or yield fluctuation and prevent costly maintenance.

The reference implementations and use cases above are just the beginning.
See more at intel.com/edgesoftwarehub.

Intel® Edge Insights packages include components designed to meet the diverse needs of key verticals delivering industry-specific outcomes at the edge.

Intel® Edge Insights for Vision
Accelerate innovation in computer vision applications and edge-to-cloud integration

Edge AI enables complex software solutions that can sense, infer, and execute to integrate computer vision, AI, and analytics from edge to cloud and back. Edge Insights for Vision combines an optimized and simplified Intel® Distribution of OpenVINO™ toolkit setup with a media pipeline that speeds inference at the edge.

Intel® Converged Edge Insights
Empower IoT applications with MEC and 5G networking capabilities

Convergence of 5G and IoT at the edge enables enterprises across verticals to deliver innovations with IT, OT, and CT insights with lower CTO. This package integrates the OpenVINO and OpenNESS toolkits, providing ready access to inference and 5G networking capabilities. These capabilities enable high performance computing capable of handling diverse workloads across inference, networking, media, and other edge capabilities.

Intel® Edge Controls for Industrial
Accelerate the transition from fixed-function industrial control systems to software-defined solutions

Fine-tune controls like never before. This software package with validated hardware integrates real-time compute, standards-based connectivity, and IT-like management with OT-like predictability. Harmonizing these features in a modular, usage-driven framework supports development and deployment of solutions that take individual use patterns and needs into account.

Intel® Edge Insights for Industrial
Support advanced AI workloads at the edge for product quality, predictive analytics, and industrial automation

Industrial enterprises are using the massive amounts of data they collect to improve product quality, cut costs, boost efficiency, and improve worker safety. Edge Insights for Industrial offers robust software tools and proven software packages.

Bring your edge intelligence solution to life quickly, easily, and with greater confidence.
Reduce setup time and release your edge AI solutions to market faster with a jump-start from the software tools and packages on the Intel Edge Software Hub.
To get started, visit intel.com/edgesoftwarehub.

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