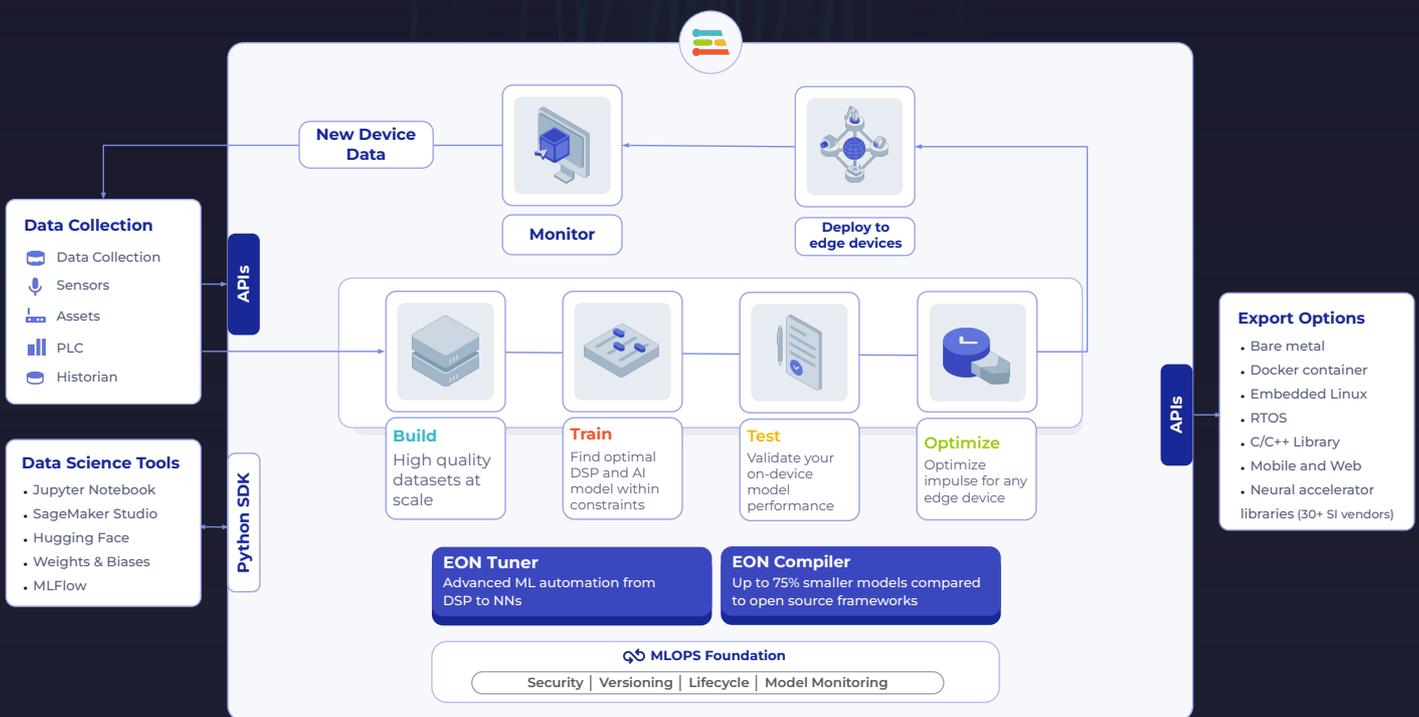EDGE IMPULSE
a Qualcomm company

Edge & Physical AI at Scale

Any data. Any edge device.

Edge Impulse is a trusted platform for developing edge & physical AI solutions, and deploying them to edge devices across the global hardware ecosystem, from MCUs to GPUs.

The End-to-End Edge AI MLOps Platform

New Device Data

Monitor

Deploy to edge devices

Data Collection
- Data Collection
- Sensors
- Assets
- PLC
- Historian

APIs

Data Science Tools
- Jupyter Notebook
- SageMaker Studio
- Hugging Face
- Weights & Biases
- MLFlow

Python SDK

Build
High quality datasets at scale

Train
Find optimal DSP and AI model within constraints

Test
Validate your on-device model performance

Optimize
Optimize impulse for any edge device

EON Tuner
Advanced ML automation from DSP to NNs

EON Compiler
Up to 75% smaller models compared to open source frameworks

MLOPS Foundation
Security | Versioning | Lifecycle | Model Monitoring

APIs

Export Options
- Bare metal
- Docker container
- Embedded Linux
- RTOS
- C/C++ Library
- Mobile and Web
- Neural accelerator libraries (30+ SI vendors)

Edge Impulse enables enterprise teams to streamline & accelerate the MLOps process for building and optimizing embedded AI and machine learning solutions using real-world data.

Key Verticals
- Agriculture
- Automotive Manufacturing
- Consumer Devices & Health Wearables
- Electronics & Parts Manufacturing
- Environmental & Public Safety
- Food & Pharmaceutical Production
- Logistics & Supply Chain
- Oil & Gas
- Smart Appliances & Infrastructure

Notable Customers

poly
ULTRAHUMAN
Halma
American Innovations
GlobalSense
DARWIN CHAMBERS
eleqt·ai
ZWIFT
PENTATONIC®
hydro stasis

Resources

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