



# On-Device AI Solution

A comprehensive on-device AI solution that delivers intelligence right at the edge. This approach involves executing AI models directly on edge devices, allowing for immediate insights and decision-making without the need for cloud connectivity.

## What is On-device AI

**On-device AI** refers to running AI models directly on edge devices, enabling real-time intelligence without relying on the cloud.

## Why On-device AI



+ **Fast** – Real-time Response



+ **Private** – Data Localization & Security



+ **Cost-effective** – Lower Cloud & Bandwidth Costs



+ **Reliable** – Works Even with Network Failures



**InHand Networks** is a leading IoT solutions provider founded in 2001, dedicated to driving digital transformation across industries and empowering customers to unlock their full potential and achieve accelerated growth.

## Challenges Faced by Customers



× **Expertise** – Insufficient AI expertise among engineering teams

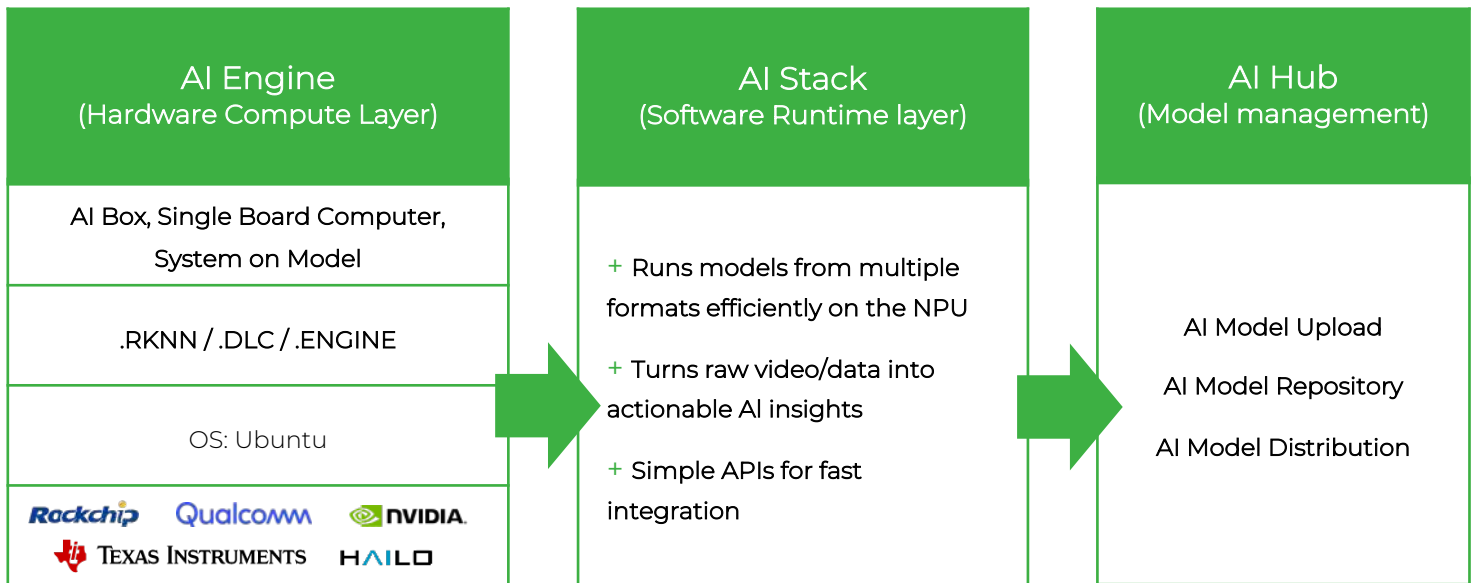


× **Deployment** – Lack of model batch deployment and management capability



× **Management** – Difficulty deploying and maintaining AI models across distributed edge devices

# On-device AI Architecture



## Supported AI Models in the On-device AI Solution

The On-device AI Solution supports a set of commonly used AI models for edge scenarios. These models can be deployed, managed, and executed on edge devices through the AI Engine, AI Stack, and AI Hub.

<p><b>Audio Event Detection</b></p>	<p><b>General OCR</b></p>	<p><b>License Plate Recognition</b></p>	<p><b>Liveness Detection</b></p>
<p><b>Facial Expression Recognition</b></p>	<p><b>Gesture Recognition</b></p>	<p><b>Detection + Tracking</b></p>	<p><b>Face Recognition</b></p>

\* The listed models are reference implementations. Customers can deploy their own optimized models based on specific application requirements.

# AI Edge Computer



## AI Box Series



## System on Module



## AI Box



## AI Box



## Single Board Computer



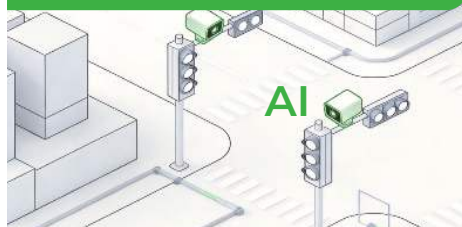
✓ **Deployable OpenClaw**

# Typical Application Scenarios

## Smart Manufacturing & Quality Inspection



## Smart Cities & Traffic Management



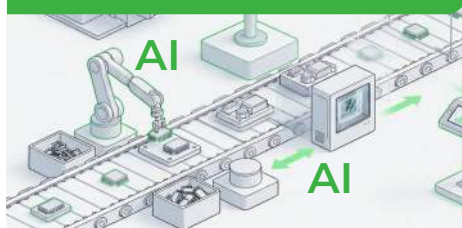
## Retail Analytics & Customer Flow Analysis



## Security & Access Control



## Industrial AI at the Edge



# Value Summary



## + Edge-native AI intelligence

AI capabilities are built directly into edge devices, enabling real-time data processing and intelligent decision-making without relying on constant cloud connectivity.



## + Ready-to-use models and APIs

Pre-integrated AI models and open APIs enable fast deployment and seamless integration with existing systems, reducing development time and complexity.



## + Scalable from device to fleet

Flexible architecture supports deployment from individual devices to large-scale fleets, enabling centralized management and efficient scaling as your operations grow.



## + Designed for industrial-grade edge scenarios

Engineered for reliability in demanding environments, with robust performance, long-term stability, and support for mission-critical industrial applications.

# About InHand Networks

**25 YEARS**

In the IoT Industry

**60 COUNTRIES**

Using Our Products

**5.4 +M**

Devices Deployed  
Worldwide



3650 Concorde Pkwy, Suite 200  
Chantilly, VA 20151  
USA  
T: +1 (703) 348-2988  
E: info@inhand.com



[www.inhand.com](http://www.inhand.com)