IEI AI Ready Systems

Artificial Intelligence, AI, is changing our lives from the past to the future. It enables machine learning by using a variety of training models to simulate and infer the status or appearance of objects. For example, the inference system with the video analysis model can perform face and vehicle license plate analysis for safety and security purposes.

Today, most of AI technology still rely on the data center to execute the inference, which will increase the risk of real-time application for applications such as traffic monitoring, security CCTV, etc. Therefore, it's crucial to implement a low-latency, real-time edge computing platform. So IEI develop series of inference system for AI edge computing in different using environment.

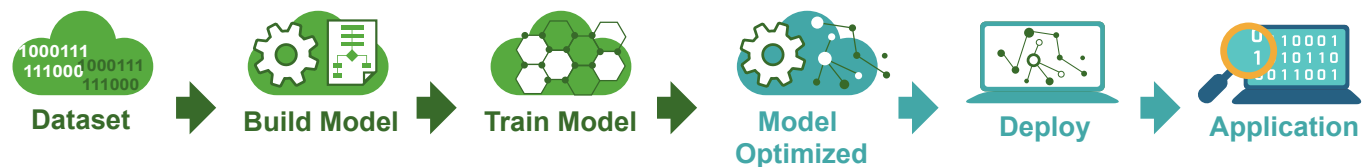➡ **Traffic Monitoring** ➡ **Retail Store Monitoring** ➡ **Medical AI** ➡ **Attendance System**
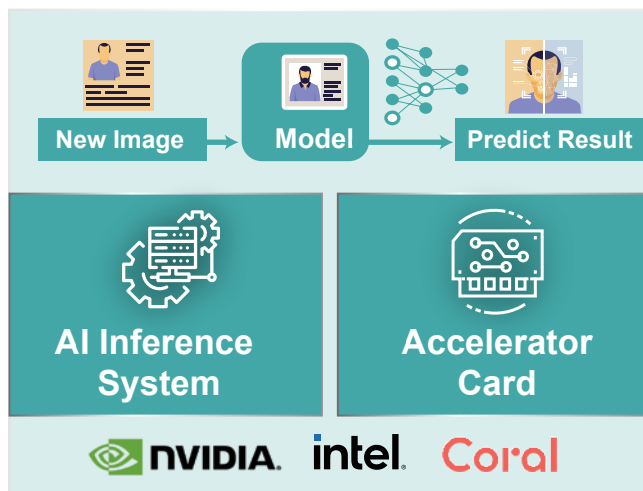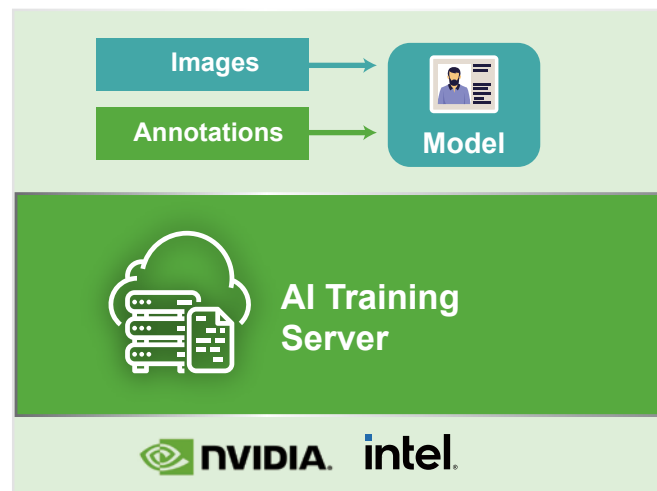
AI Deep Learning Work Flow

Dataset → **Build Model** → **Train Model** → **Model Optimized** → **Deploy** → **Application**

Training	Inferencing
ONNX mxnet TensorFlow Caffe	OpenVINO TensorFlowLite TensorRT

Training

Images →
Annotations → **Model**

AI Training Server

NVIDIA intel

Inferencing

New Image → **Model** → **Predict Result**

AI Inference System | **Accelerator Card**
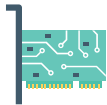
NVIDIA intel Coral
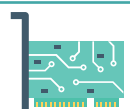
IEI AI Training System

GRAND-C422-20D

The GRAND-C422-20D is an AI training system which has maximum expansion ability to add in AI computing accelerator cards for AI model training or inference.
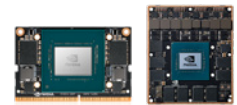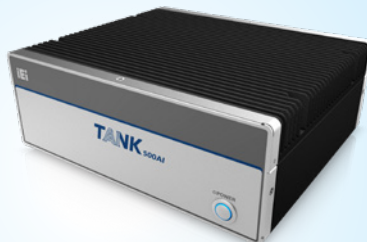
IEI AI Inference System

Note : Expansion support

PCIe card

MPCIE card

Jetson Module
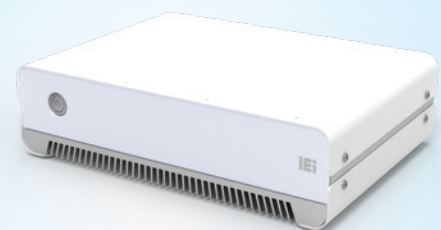
TANK-500AI-XA
NVIDIA Jetson AGX Xavier platform

TANK-510AI-NX
NVIDIA Jetson Xavier NX platform
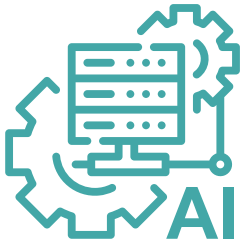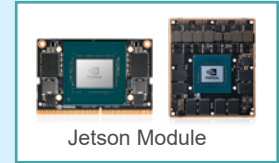
PPC-W15AI-NX
NVIDIA Jetson Xavier NX platform

HTB-300-XA
NVIDIA Jetson AGX Xavier platform

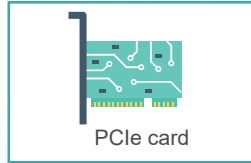www.ieiworld.com

IEI AI Inference System

Note : Expansion support

PCIe card	MPCIE card	Jetson Module
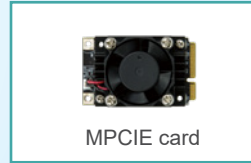
TANK-870 AIoT Dev. kit
Intel® SkyLake AI Dev. Kit

FLEX-BX200 AIoT Dev. kit
Intel® Coffee Lake Developer Kit

FLEX-BX210AI-Q470
Intel® Comet Lake AI Box PC

IDS-310AI
Intel® Apollo Lake AI Embedded System

ITG-100AI
Intel® Apollo Lake AI Embedded System

DRPC-230
Intel® Whisky Lake AI Embedded System

PAC-400AI
Intel® SkyLake AI Box PC

RACK-500AI
Intel® Coffee Lake AI Box PC

HTB-210-W480
Intel® Comet Lake Medical AI Box PC