IEI TANK* AIOT DEVELOPER KIT

Experience the performance of an Intel® Xeon® processor and accelerator.

- Support for CPU, GPU, and future accelerators
- Preinstalled developer tools and SDKs
- Quick setup with preloaded samples
- Performance to support multiple hypervisors

Buy Now  Get Started

Overview | Kit Details | Specifications | Documentation | Support | Tools
**Overview**

**Optimal Performance**
Analyze multiple HD video streams and large datasets, as well as run hypervisors to minimize processor overhead, with an Intel Xeon E processor, Intel® C236 chipset, and Intel® HD Graphics P530.

**Preinstalled Software Stack**
Exploit hardware performance using the Intel® Distribution of OpenVINO™ toolkit and Intel® Media SDK, and other libraries—all included with the out-of-the-box samples.

**Rapid Development & Deployment**
Reduce time to market and simplify software development using preloaded tools such as Intel® System Studio and Arduino Create®

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**Who Needs This Product**
Information and operational technologists along with IoT developers who:

- Require an industrialized solution to meet the rigors of their implementation
- Need a quicker path to deployment
- Run multiple hypervisors for their solutions

**Industrial Use Cases**
- Factory automation
- Warehouse management
- Intelligent energy management
- Machine vision

**Reference Implementation**
- Build a Store Traffic Monitor
- Develop an Intruder Detection System

IEI Smart Factory Solution (PDF)
Kit Details

Hardware
- IEI TANK* E3
- Power cable

Preinstalled Software
- Intel® Distribution of OpenVINO™ toolkit
- Intel® Media SDK
- Ubuntu* 16.04 desktop LTS
- Intel® System Studio 2018

Hardware Specifications
System Board

Intel® Xeon® processor E3-1268LV5 (2.4 GHz quad core, 8 threads, 35 W thermal design power)
Intel® C236 chipset
32 GB DDR4 system memory
1 TB hard disk drive (HDD)

I/O Interfaces

4 - USB 3.0
4 - USB 2.0
4 - RS-232 (2 - RJ-45, 2 - DB-9 with isolation)
2 - RS-232/422/485 (DB-9)
8-bit digital input (4-bit input, 4-bit output)
1 - VGA
1 - HDMI plus DisplayPort®
1 - Line out, 1 - microphone-in audio
Intel® Ethernet Connection I219-LM
Intel® Ethernet Controller I210

Expansion Slots

2 - PCIe® with 8 data lines
PCIe® Mini: 1 - half size, 1 - full size (supports mSATA, colay with SATA)

Operating Temperature

-20°C to 60°C with air flow

Dimensions

Height x width x depth: 5 in. x 8 in. x 10 in.
(121.5 mm x 205 mm x 255.2 mm)
13.9 lbs (6.3 kg)

Documentation & Support

Tutorials

Deep Learning Inference Engine Samples
Image Segmentation Sample
Neural Style Transfer Sample
Browse All Code Samples on GitHub*

Intel® Distribution of OpenVINO™ Toolkit

- Enables convolutional neural network-based deep learning inference on the edge
- Supports heterogeneous execution across various accelerators—CPU, GPU, Intel® Movidius™ Neural Compute Stick, and FPGA—using a common API
- Speeds up time to market via a library of functions and preoptimized kernels

Support

IEI TANK® AIoT Developer Kit: Support
Intel® Distribution of OpenVINO™ toolkit: Forum
Intel® Media SDK: Support
Arduino Create*: Forum
Intel® System Studio 2018: Support

Documentation
Tools

**Arduino Create***
- Cloud-based development solution
- Integrated with Intel®-based boards and libraries
- Large community collection of guides, projects, and training for all levels

Support | Get Started

**Intel® System Studio 2018**
- Optimize production and performance
- Get cross-platform support
- Quickly identify and analyze performance across network, devices, and remote systems
- Reduce system power consumption by collecting and analyzing power behavior
- Access Intel® Advanced Vector Extensions 512 instructions

Support | Get Started

**Tools**
- Intel® Distribution of OpenVINO™ Toolkit
- Intel® Media SDK
- Intel® System Studio
- Intel® Software Development Kits

**Training**
- IoT Training
- Tech.Decoded
- GitHub*: Intel® IoT Developer Kit
- 01.org
- YouTube*: Intel® IoT

**Related Programs**
- Intel® AI: In Production
- Intel® Internet of Things Solutions Alliance