

Axiomtek AI Starter Kit

AI-based Computer Vision and Deep Learning Solution

Features

- Integrated high performance Intel® Core™-based AI edge platform, intelligence camera and deep learning software
- Built-in Axiomtek AI Suite (AIS) based on Intel® Edge Software Hub for Industrial to implement from deep-learning training to inference
- User-friendly experience and well-developed model management
- Application-ready package for industrial automation, retail, smart city, etc.



▲ Axiomtek AI Starter Kit

Introduction

The Axiomtek AI starter kit is a completed starter kit featuring a high-performance Intel® Core™-based AI edge platform IPC962-511-FL with high-computing GPU/VPU support, a high-resolution camera, and built-in Axiomtek AI suite (AIS) based on TensorFlow Framework, Intel® Edge Software Hub for Industrial and Intel® OpenVINO™. This application-ready package enables manufacturers to ease the development of vision applications within automation. The hardware platform, IPC962-511, is a 2-slot fanless industrial system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor. It comes with front-access I/O and adequate PCIe and PCI Slots. The Axiomtek AI Suite (AIS) is based on Intel® Edge Software Hub for Industrial to implement from deep-learning training to inference. It comes with web apps design and intuitive user interfaces, helping the users deploy AI without coding.

Axiomtek AI Suite (AIS)

- Deploy without programming: web apps design with simple and intuitive user interfaces
- Intel® Edge Software Hub for Industrial: support both model optimizer and inference engine by Intel® OpenVINO™
- End-to end deep learning: all-in-one implementation from training to inference
- Built-in dashboard components: simple dashboard components for users to easily and quickly deploy training and inference

Starter Kit Platform - IPC962-511-FL

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 65W
- Intel® H110 chipset
- Supports 2 expansion slots
- Supports internal 125W power for accelerator
- Compact & front I/O design
- -10°C to +60°C operating temperature range
- Supports 2 swappable 2.5" HDD
- Supports WLAN module & antenna (optional)

Packing List

- 1 x IPC962-511-FL
- 1 x C922 Pro Stream
- 1 x Power Cord
- 1 x 230W Adaptor

Specifications

Axiomtek AI Suite (AIS)

Inference Type	Classification, Object Detection	
Framework	Intel® Training and Learning Suite Intel® Edge Software Hub for Industrial	
Support AI Model	Classification	LaNet 5, VGG 19, VGG 16, GoogleNet, Inception V3, MobileNet V1, MobileNet V2, Resnet50
	Object Detection	SSD Mobilenet V1 SSD Mobilenet V2 SSD Inception V2
Training Framework	TensorFlow, mxnet, Caffe	
OS	Linux	

IPC962-511-FL

Processor System	CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 65W (Kaby Lake/Skylake)
	Chipset	Intel® H110
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
System I/O Outlet	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)	
	4 x USB 3.0	
	1 x HDMI	
	1 x VGA	
	1 x 3-pin terminal block	
Expansion Interface	1 x PCIe x16 and 1 x PCIe x4	
	1 x PCI Express Mini Card slot with USB interface	
Power Input	Type:	ATX/AT
	Input:	24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD*	
	-10°C to +50°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD*	
Weight (net/gross)	4.382 kg (9.66 lb)/5.346 kg (11.80 lb)	
Certifications	CE, FCC	
Dimensions	147.5 mm (5.80") (W) x 192 mm (7.54") (H) x 230 mm (9.04") (D)	

* CPU support list please refer to the user's manual.

Ordering Information

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