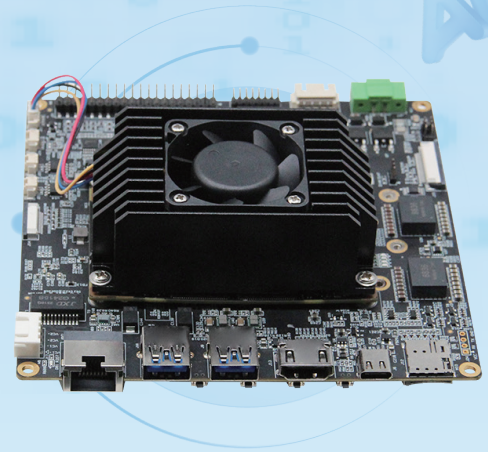


# 101-DEV Developer Kits



## Key Feature

- AI Performance: 20/8 TOPS INT8
- Memory & Storage: 12/8/4GB LPDDR4X, ECC Supported
- Display Interface: 1 × HDMI, 1 × MIPI DSI
- Rich I/O Interfaces: 2 × USB3.0 Type-A, 1 × USB3.0 Type-C, 1 × RJ45, 1 × Micro SD, 1 × RTC, 1 × Audio In, 2 × Audio Out
- Expansion Slots: miniPCIe, M.2 E-Key 2230, M.2 M-Key 2242, M.2 B-Key 3050, Nano SIM
- Operating Temperature: -25°C ~ +65°C
- Input Voltage: DC 19V ~ 36V

## Introduction

101-DEV is an industrial-grade edge AI development kit. Its core is equipped with the Ascend Atlas 200I A2 acceleration module, delivering the option of 8 TOPS or 20 TOPS AI compute.

It supports mainstream deep learning frameworks such as PyTorch and TensorFlow, providing developers with a full-process support from model training, optimization, deployment to real-time inference, accelerating the transition of edge AI applications from prototype verification to large-scale implementation.



Website



Wisdom Education



Smart Retail



Park security system



Internet of Things terminal

## Specifications

Module	Ascend Atlas 200I A2	
AI Compute	20 TOPS INT8, 10 TFLOPS FP16	8 TOPS INT8, 4 TFLOPS FP16
CPU	4core * 1.6GHz	4core * 1.0GHz
Memory	LPDDR4X, 12/8/4 GB, total bandwidth 51.2 / 34.1 /34.1 GB/s, ECC supported	LPDDR4X, 12/8/4 GB, total bandwidth 51.2 / 34.1 /34.1 GB/s, ECC supported
Encode/Decode	40x 1080P 30FPS, 4x 4K (3840x2160) 75FPS H.264 / H.265 20x 1080P 30FPS, 3x 4K (3840x2160) 50FPS H.264 / H.265 JPEG decoder:1080P 512FPS, JPEG encoder:1080P 256FPS, max.resolution:16384x16384	40x 1080P 30FPS, 4x 4K (3840 x 2160) 75FPS H.264 / H.265 20x 1080P 30FPS, 3x 4K (3840 x 2160) 50FPS H.264 / H.265 JPEG decoder:1080P 512FPS, JPEG encoder:1080P 256FPS, max.resolution:16384x16384
Display	1xHDMI, 1x MIPI DSI	
USB	2x USB 3.0 Type-A, 1x USB 3.0 Type-C, 1x USB3.0 HEADER	
Networking	2x Gigabit network (1x RJ45+ 1x 16pin Header)	
SD Card	1x Micro SD	
Button	1x Power, 1x Recovery, 1x Reset, 1x Sleep	
Expansion	1x miniPCle, 1x M.2 Key E(2230)、1x M.2 Key M(2242)、1x M.2 Key B(3050)、1x Nano SIM	
Functional Signals	1x AUDIO IN, 2x AUDIO OUT, 2x IIC, 2x IIS, 1x SPI, 5x GPIO	
Serial Ports	3x UART	
Temperature	-25°C~+65°C	
Dimensions	130.8mm*128.5mm*46mm	
Power	DC 19V~36V	
Weight	270g	
OS	RC	

## Interfaces

