

# 101F1E5

## Edge AI Box



### Key Feature

- AI Performance: 20/8 TOPS INT8
- Memory & Storage: 12/8/4GB LPDDR4X, ECC Supported
- Display Interface: 1 × HDMI
- Rich I/O Interfaces: 5 × RJ45, 2 × USB3.0 Type-A, 1 × USB3.0 Type-C, 1 × Micro SD
- Expansion Slots: Built-in miniPCIe, M.2 E-Key 2230, M.2 M-Key 2242, M.2 B-Key 3050, Nano SIM and SATA power interface
- Operating Temperature: -25°C ~ +65°C
- Input Voltage: DC 9V ~ 36V

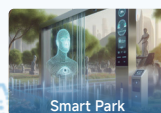
### Introduction

101F1E5 is an industrial-grade computing device equipped with the Ascend Atlas 200I A2 acceleration module. It offers two AI compute options of 8 TOPS or 20 TOPS, enabling AI application acceleration for tasks such as target recognition and image classification at the edge. This device can meet the real-time AI inference performance requirements of edge AI scenarios in smart parks, machine vision, security patrols, and smart retail.

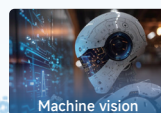
The device features a robust and compact fan cooling design, with abundant I/O interfaces and key interfaces equipped with electrostatic protection capabilities, providing a solid guarantee for the long-term stable operation of edge AI scenarios in various fields.



Website



Smart Park



Machine vision



Security inspection patrol



Smart Retail

## 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, with a total bandwidth of 51.2 / 34.1 /34.1 GB/s, ECC supported	LPDDR4X, 12/8/4 GB, with a total bandwidth of 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:16384 x 16384	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:16384 x 16384
Display	1xHDMI	
USB	2x USB 3.0 Type-A、1x USB 3.0 Type-C	
Networking	5x RJ45	
SD Card	1x Micro SD	
Button	1x Power、1x Recovery、1x Reset、1x Sleep	
Expansion	1x miniPCIe、1x M.2 KEY E(2230)、1x M.2 KEY M(2242)、1x M.2 KEY B(3050)、1x Nano SIM	
Temperature	-25°C~+65°C	
Dimensions	202mm*200mm*65.5mm	
Power	DC 9V~36V	
Weight	2036g	
OS	RC	

## Interfaces

