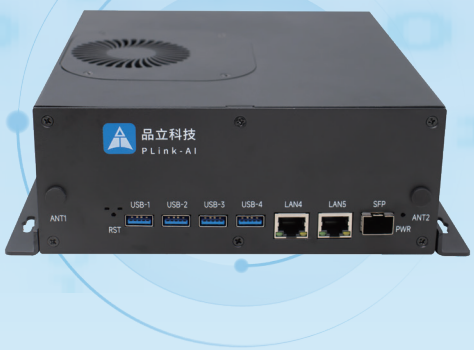
品立科技
PLink-AI

301F1E5
Edge AI Box



Key Feature

- AI Performance: 176 TOPS (INT8)
- Memory & Storage: 48GB LPDDR4X, 128GB eMMC
- Display Interface: 1 × HDMI (Optional)
- Rich I/O Interfaces: 5 × RJ45 ports, 1 × FC port, 4 × USB3.0 Type-A, 4 × GPIO, 1 × CAN, 2 × RS232
- Expansion Slots: Built-in miniPCIe, M.2 M Key (2280/2242), M.2 B Key (3050), Nano SIM slot and SATA power interface
- Operating Temperature: -25°C ~ +65°C/ -40°C ~ +65°C (Optional)
- Input Voltage: DC 9V ~ 36V

Introduction

301F1E5 is an industrial-grade computing device equipped with the Ascend 310P chip, delivering up to 176 TOPS AI compute. The device features a robust and compact design, with abundant I/O interfaces and key interfaces equipped with electrostatic protection capabilities.

It combines high computing density, high performance ratio, high reliability and low cost advantages, and is specifically designed for edge AI inference scenarios such as smart parks, machine vision, security patrols, and vehicle-road collaboration.

Website

Specifications

Module	AI310SM Module
AI Compute	176 TOPS INT8
CPU	ARMv8.2 16core TaishanV200M@max. 1.9 GHz
Memory	48 GB 256-bit LPDDR4X
Storage	128G EMMC
Encode/ Decode	Video Encoder: 24x 1080P@30fps/3x 4K@60fps (H.264/H.265) Video Decoder: 96x 1080P@30fps/12x 4K@60fps (H.264/H.265) JPEG Encoder: 4K@192fps (FHD@1024fps) JPEG Decoder: 4K@384fps (FHD@2048fps) supports up/down scaling, crop, Chroma up/down sampling, color space conversion（FHD 4320FPS）
Display	HDMI(option)
USB	4x USB 3.0 Type-A
Networking	6x Gigabit network (5x RJ455+ 1x FC)
Button	1x Reset
Expansion	2x miniPCIe、1x M.2 KEY M(2280)、1x M.2 KEY M(2242)、1x M.2 KEY B(3050)、1x Nano SIM
Functional Signals	2x CAN，2x RS485，2x AUDIO OUT
Serial Ports	1x RS232
Temperature	-25℃~+65℃ /-40℃~+65℃
Dimensions	225mm*218mm*75.5mm
Input Voltage	DC 9V~36V
Weight	2200g
OS	RC
Power	<140W

Interfaces