

DA31V6X Computer Card



Key Feature

- AI Performance: 352 TOPS INT8
- Memory & Storage: 96GB LPDDR4X
- Video Decode: Supports 96x 1080P@30fps/12x4K@60fps H.264/H.265
- JPEG Decode: 4K@384fps (FHD@2048fps)
- Mechanical Specification: 6U VPX
- Supports air cooling
- Operating Temperature: -43°C ~ +65°C
- Input Voltage: DC 12V, with 3.3V BMC standby power supply

Introduction

The DA31V6X is a high-performance industrial edge AI computing card powered by dual onboard Ascend 310P processors. It supports standalone chip operation or aggregated computing power via HCCS inter-chip interconnection, delivering a peak AI performance of 352 TOPS INT8. Equipped with 96GB LPDDR4X memory, the card enables multi-channel HD video encoding, decoding and image processing, ideal for AI inference deployment in industrial automation, aerospace, UAV and other edge scenarios.

Complying with VPX VITA46 specification, DA31V6X adopts a 6U form factor and features 2 × PCIe x16 high-speed interfaces. HJ30J connectors extend abundant debug and flash interfaces. The front panel is integrated with debug port, reset switch and multi-status LEDs.



Website



Military
vehicle-mounted



Intelligent Aircraft
System



Shipping



Automation in
industry

Specifications

AI Compute	352TOPS/INT8
GPU	DaVinciV200 20 cores
GPU Max Frequency	1.08 GHz
Memory	96GB LPDDR4X
Encode/Decode	Video Encode: 24x 1080P@30fps/3x 4K@60fps H.264/H.265、 Video Decode: 96x 1080P@30fps/12x4K@60fps H.264/H.265 JPEG Encode: 4K@192fps (FHD@1024fps) 、 JPEG Decode: 4K@384fps (FHD@2048fps) supports up/down scaling, crop, Chroma up/down sampling, color space conversion (FHD 4320FPS)
High-Speed Interface	2 x PCIe x16 interfaces, backward compatible with PCIe x8
Other I/O	Two 310P debugging interfaces, one CPLD programming port, one BMC programming port and one BMC debugging port are connected through the HJ30J connector.
Power	≤180W (Change with configuration)
Dimensions	189.1mm*265.9mm*35.3mm
Temperature	-43°C~ +65°C
Input Voltage	DC 12V and 3.3V BMC power supply (Standard)
OS	EP

Dimensions

