



A8Pro-H0808
Specification
(V1.0)



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1. Overview

The A8Pro-H0808 consists of the 3.5-inch hard disk module, MDVR module, communication module, power module, and other modules. It is an all-in-one device for intelligent hard disk monitoring and dispatching, which provides functions like service scheduling, video playback, TTS, driver attendance, and interconnection with the service sensor.

2. Strengths

- 1) Automotive-grade high-precision connectors for quick detachment, security, and easy maintenance of modules
- 2) Embedded Linux operating system
- 3) Quad-core processor and powerful neural network inference engine to support various intelligent algorithms and applications
- 4) H.265/H.264 encoding and decoding that improve the memory space utilization
- 5) 3.5-inch hard disk storage
- 6) Combined shock-absorbing technologies of mechanical, electronic, and software-based shock absorbing for the entire system
- 7) Sufficient external ports

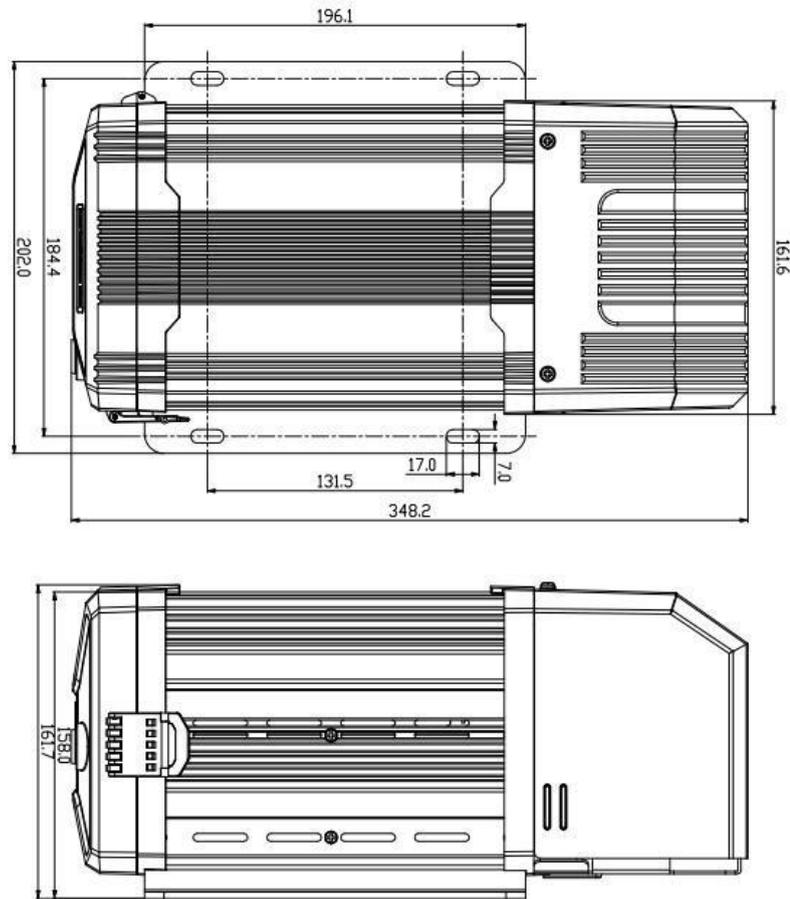
3. Specifications

	Item	Indicator
Basic Parameters	CPU	ARM Cortex A53 quad-core processor @ Max. 1.15 GHz
	Memory	2 GB
	Operating System	Linux
	3G/4G	TDD-LTE/FDD-LTE/EVDO/TD-SCDMA/WCDMA
	5G	Supported after card upgrade
	WIFI	802.11b/g/n/ac (optional)
	Positioning	GPS/BeiDou positioning
	Hard Disk	1 × 3.5-inch HDD (heating supported)

		1 × M.2 SSD (optional)
	Sensor	6-axis acceleration sensor
Port	Video Input	8-channel AHD + 8-channel IPC (maximum resolution: 1080p)
	Coding and Decoding	1080p @ 240 FPS H.265/H.264 coding + 1080p @ 240 FPS H.265/H.264 decoding
	Video Output	1-channel CVBS output + 1-channel VGA output
	Audio Input	8-channel analog input + 8-channel digital input
	Audio Output	1-channel analog output
	USB	Front USB 3.0 Type-A connector and rear USB 2.0 aviation plug connector
	SD	1 × SD port
	LAN Function	1 × 1000 Mbps
	SIM Card	1 × SIM card slot (2 × SIM cards can be supported)
	IO	8-channel input and 2-channel output
	Power Amplifier	2-channel output (2 × 20 W power amplifiers supported at maximum)
	Serial Port	RS232 × 2, RS485 × 2
	CAN	2 × CAN ports
	Velocity	1-channel pulse velocity measurement
	MIC	External megaphone
Power Supply Specifications	Power Input	DC 8-36 V
	Power Output	12 V/1 A, 5 V/0.5 A
	Power Consumption	MDVR bare-metal power consumption: < 12 W; typical operating power consumption: < 95 W
Installation	Dimensions	348.2 mm (L) × 202 mm (W) × 161.7 mm (H) mm (with the rear shield)
Operating Environment	Operating Temperature	-30°C to +55°C (MDVR with hard disks) -30°C to +70°C (MDVR without hard disks)
	Storage Temperature	-40°C -+70°C

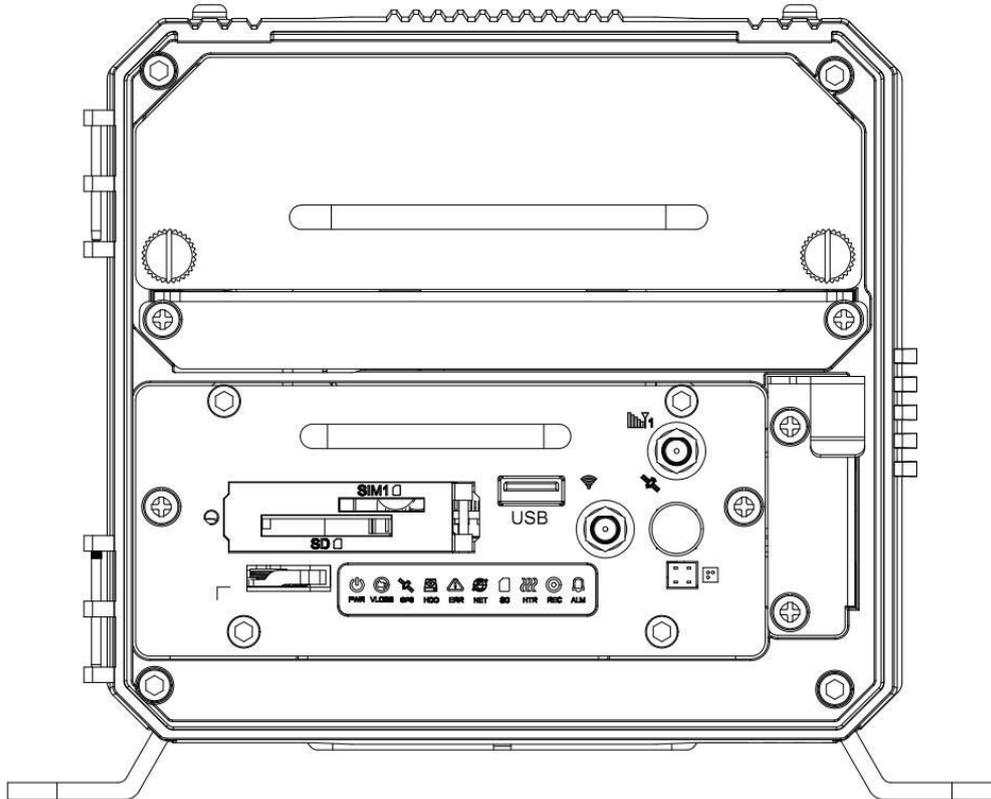
4. Dimensions

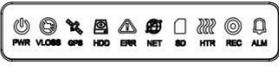
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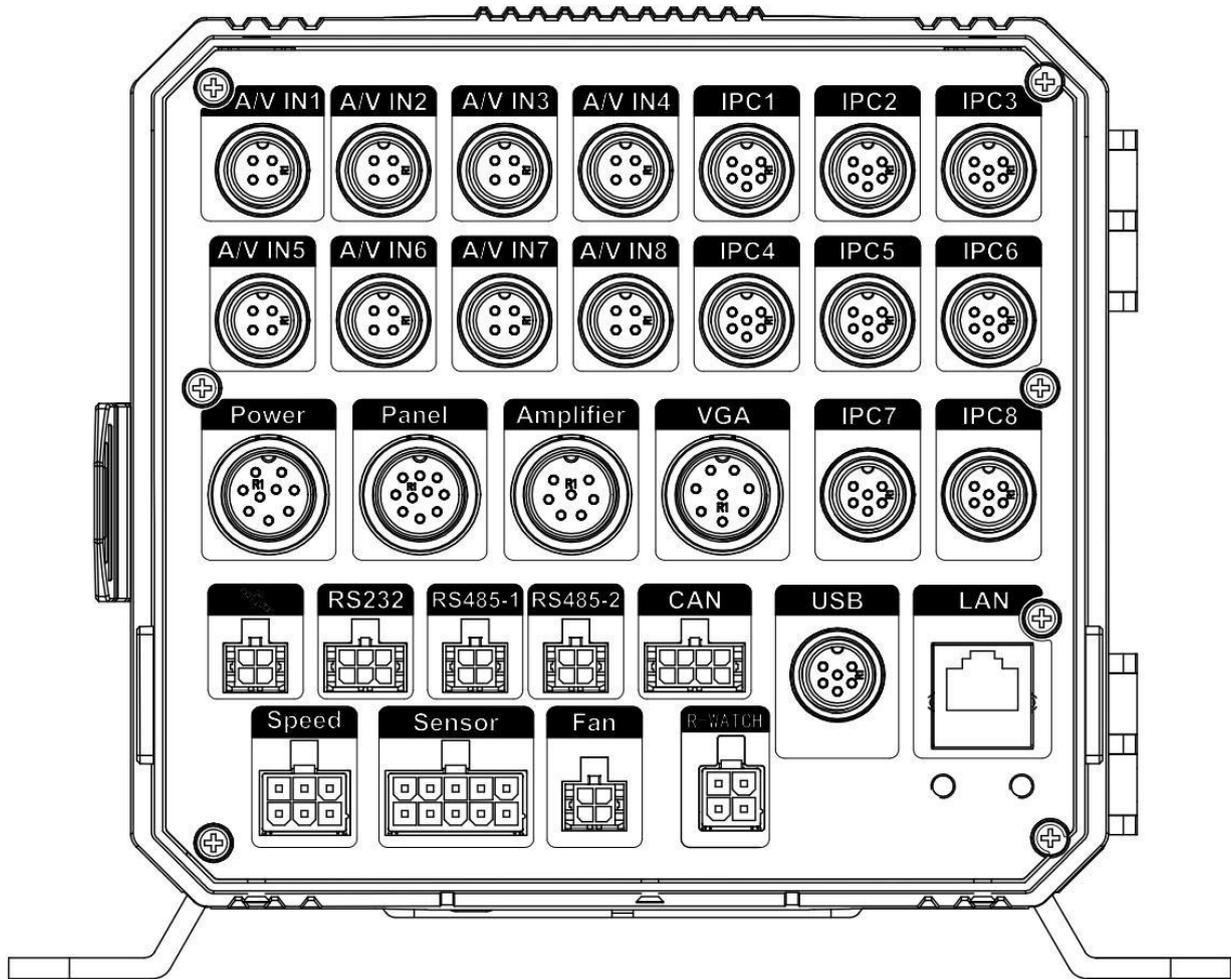


5. Schematic Diagram of Ports

Front panel:



S/N	Silk Screen	Description
1	SIM1	SIM card port
2	SD	SD card port
3	USB	USB port
4		Antenna connector of the Wi-Fi module
5		Antenna connector of the built-in positioning module
6		Antenna connector of the 4G module
7		Debugging serial port
8		Indicator display port

Rear panel:


S/N	Silk Screen	Description
1	A/V IN1~A/V IN8	AHD camera analog input port
2	IPC1-8	IP camera digital input port
3	Power	Power Input
4	Panel	Man-machine interaction display port
5	Amplifier	Power amplifier output port
6	VGA	VGA HD display output port
7		Positioning module port
8	RS232	2 × RS232 ports
9	RS485-1/RS485-2	2 × RS485 ports
10	CAN	2 × CAN ports

11	USB	Disaster recovery memory port
12	LAN	LAN port
13	Speed	Pulse velocity measurement input port/alarm output port
14	Sensor	Alarm input port
15	Fan	Fan port
16	R-WATCH	R-WATCH reminder port