

REDUCE THE COST OF
TRANSPORTATION



HOPECHART



TCO HQA series

TACHOGRAPH FOR COMMERCIAL VEHICLES



This product supports GPS/BD dual-mode positioning, 4G network communication, access to multiple cameras and sensors and integrates DSM, BSD, ADAS and other image recognition algorithms to realize real-time monitoring and reminding of the state of the vehicle and the driver so as to reduce the hidden dangers of accidents and ensure the safety of vehicle driving. At the same time, through the reading and analysis of driving data, it can provide real and credible basis for traffic management departments to deal with traffic accidents and meets GB/T 19056-2021, JT/T 794-2019, JT/T 808-2019, JT/T 1076-2016, JT/T 1078-2016 and other standards at the same time.

ADAS

- LDW -Lane Departure Warning
- FCW -Forward Collision Warning
- HMW -Headway Monitoring Warning
- PCW -Pedestrian Collision Warning

DMS

- Fatigue state monitoring
- Smoking, calling, distracting
- Face recognition
- Alarm of occlusion

BSD

- Pedestrian warning in blind area
- Identification of left, right, front and rear blind areas^{DRR}

AVM

- Integrated with blind zone alarm
- One-key automatic calibration

CATEGORY	FUNCTION	DESCRIPTION
OVERALL PERFORMANCE	WORKING VOLTAGE	MIN:9V MAX:32V Typical:24V
	OPERATION TEMPERATURE	MIN:-30°C MAX:70°C Typical:25°C
	STORAGE TEMPERATURE	MIN:-40°C MAX:85°C Typical:25°C
	WORKING HUMIDITY	MIN:0% MAX:95% Typical:60%
PROCESSOR	MCU	NXP MIMXRT1061CVL5B Arm Cortex-M7, Operating Frequency [Max] 528MHz, SRAM1024kB LTE-TDD/LTE-FDD/HSPA+/GSM/GPRS/EDGE TDD-LTE B38/B39/B40/B41 FDD-LTE B1/B3/B5/B8 UMTS/HSPA+ B1/B8 GSM/GPRS/EDGE 900/1800 MHz
	COMMUNICATION MODULE	Rockchip RV1126 Quad core ARM Cortex-A7 2.0Tops support INT8/INT16
	SOC	
STORAGE	PROTECTIVE STORAGE	32GB CSMU protected storage unit At least 8h of last audio and video recording
	EXTERNAL STORAGE	Supports 1 SD card with Max capacity of 512 GB Support BT 4.1 and above version
WIRELESS COMMUNICATION	BT	Support wireless transmission rate of 1Mbps+ Support SPP and FTP protocol
	WIFI	Support 2.4G band WiFi wireless data transmission Support IEEE 802.11n wireless transmission protocol
POSITIONING	GNSS	Cold start capture sensitivity: -148dBm Tracking sensitivity: -162dBm Positioning accuracy: ≤2.5m; Update rate: 1Hz (CEP50) TTF (cold start) : ≤32s; TTF (hot start) : ≤1s
IMU MODULE	6-AXIS ACCELERATION SENSOR	Realize rollover (arbitrary plane Angle error<2°) and collision detection
TIME MODULE	RTC MODULE	Timing error ≤2s within +C8:C1524h
HMI	BUTTON*4	"Menu", "▲", "▼", "OK" with corresponding screen printing
	DISPLAY SCREEN	132*64 dot matrix screen, green backlight Adjusted volume with sound through horn hole
	LOUDSPEAKER	Volume of 3 grades: high(80dB)/ medium(70 dB)/low(60 dB)
STANDBY BATTERY	STANDBY BATTERY	Provide at least 10min working time
IC CARD	IC CARD	Contact-type driver card
EXTERNAL INTERFACE	CAN	CAN2.0B*2 No termination resistor
	RS232	1
	RS485	1
	AD	2
	USB	1 front facing USB interface (TYPE-A female connector), meet USB2.0 Host mode Support access to file system FAT32 U-disk(maximum 1T)
	ETH	WIFI hotspot transmitter with USB interface (external network sharing) Optional, 1 expandable 100 MBPS industrial Ethernet
	SATUS_OC	*1 OC open circuit for self-test state output, voltage ≤ vehicle power supply /voltage, current ≤1A
	24V/12V POWER SUPPLY OUTPUT	*1, current 500mA, output voltage same as main power of the device
	PULSE INPUT	*1
	AUDIO/VIDEO INPUT	4+ AHD interface, support 1080P/720P camera access. Optional 8channel input
AUDIO/VIDEO OUTPUT	1, CVBS/AHD1080/AHD720	

15+ DEVELOPMENT HISTORY
700+ TOTAL EMPLOYEE
1500m² EXPERIMENTAL SITE
27000m² FACTORY SITE
3000000+ ANNUAL PRODUCTION CAPACITY
10000000+ CUMULATIVE SHIPMENT

Hangzhou HopeChart IoT Technology Co., Ltd. was established on June 11th, 2009, and landed in science and technology innovation board of Shanghai Stock Exchange on November 6th, 2019 (stock code: 688288), with a registered capital of 100,343,920 yuan. With the mission of "reducing the cost of transportation", Hopechart has continuously expanded the application fields of intelligent connected products for more than 10 years, and successfully promoted the connected products from commercial vehicle to many sub-fields such as new energy vehicle, non-road machinery, and motorcycle. Through independent R&D and manufacturing capabilities from design planning, development, mold making to production, we are committed to providing customers with intelligent network system and service based on hardware terminal and vehicle networking platform.

OUR CLIENTS



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