# REDUCE THE COST OF TRANSPORTATION

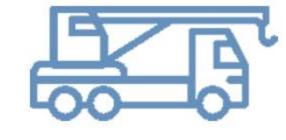




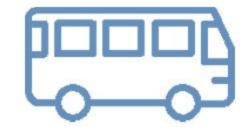
# T-BOX HQT401

## TELEMATICS BOX FOR COMMERCIAL VEHICLES



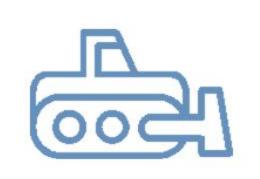












HQT401 is designed to meet the needs of modern intelligent and connected vehicles.

Our product can deeply read the automotive CAN bus data through the automotive grade processing chip and new communication technology to achieve requirements based on the "automotive grade" reliability, working temperature, anti-interference etc.

Our product can be customized to select functions like intelligent vehicle data input, data acquisition, remote control, remote diagnosis, remote upgrade, national standard satidfaction and so on. With automotive information security protection which can solve the security authentication and data confidentiality problems of in-vehicle network and out-of-vehicle network equipment, our product can resist various network attacks against the Internet of vehicles, and can be widely used in commercial vehicles ,passenger cars and new energy vehicles.







DATA
ACQUISITION
&STORAGE



VEHICLE ATTITUDE RECOGNITION



REMOTE UPLOAD







MEET STANDARD

### APPLIED SCENARIO

















PERFORMANCE PARAMETER	
MCU	Cortex-M7, 160MHz
Storage	64Mbit
	Mode: 4G LTE Cat.4 OPEN
Communication	
Module	TDD-LTE B38/B40/B41
	FDD-LTE B1/B3/B5/B7/B8/B20
Bluetooth	BT 3.0, BLE 4.2
	Type: GPS/BD/GLONASS
01100	Positioning accuracy:
GNSS	≤2.5m (CEP50)
	TTFF:
RTC	Cold boot≤32s, Warm boot≤1.5s
EMMC	External to the MCU,24h±5s 8G
SIM Card	Patch
Backup Battery	NI-MH battery, 110mAh
Operating	THE INTERDUCTORY, THORITAIN
Voltage	9-36V
Operating	
Current	< 150mA
Dormant	∠ 2 ma Λ
Current	< 3mA
Quiescent	<1mA
Current	· IIII/
Operating	-30°C~+70°C
Temperature	
Storage	-40°C~+85°C
Temperature	IDE 4
IP Grade	IP54
Naterial	PC+ABS
CAN	4x

PRODUCT FUNCTION		
Positioning	Support Positioning Anti-drift	
Networking	Support connection to the enterprise platform	
	Support up to 4 APN channel configurations	
Time and Timing	External RTC, 24h±5s	
	Synthetically compare GNSS timing with platform server timing, GNSS timing preferred	
Data Acquisition	Support 4-way CAN acquisition, support CAN wake-up	
	Support acquisition of external passive MIC	
	Support monitoring audio information	
	Support noise suppression	
	Support 4-way switching data acquisition (excluding special defined switching data)	
	Support special switching data such as ACC, IG, charging wake-up (low), E/I/B-CALL and so	
	Support acquisition and report of main/backup voltage	
Data Interaction	Support debugging/program updating via USB	
	Support parameter configuration via RS232/RS485 for TBOX debugging/IHU	
	connection/sensor docking	
	Support collection and outgoing of CAN data	
	Support 250Kbps, 500Kbps and 1Mbps baud rates	
	Support access to the Internet via WiFi hotspot Support connection to vehicle WiFi hotspot	
Power Management	Normal Operation Mode with Fully function enabled	
	Deep Sleep/Static Mode:Support local wake-up (ACC/IG, vibration, CAN bus, timed wake-	
	up)	
	Off Mode:Directly turn off the power supply of motherboard (including backup power)	
	The TBOX can still work with backup power after the external power supply is disconnected	
Data Storage	Support storing data/files into Flash/eMMC	
	Support CAN Raw Data Storage	
	Support storage of switch, ACC signal and other types of data	
	Support the storage of TBOX operation logs, networking logs and other logs	
	Support data export through U disk (with adapter)	
Human-computer Interaction	Support fault detection of module/antenna/SIM card/power supply/voltage/OTA and	
	representing by the indicator light	
Program Upgrade	Support TBOX upgrade through enterprise platform or backend management server	
	Support remote firmware refresh of ECU via CAN bus	
Information Security	Hardware design satisfies R155 and R156	

15+

**DEVELOPMENT** 

**HISTORY** 

700+

TOTAL

**EMPLOYEE** 

1500 m<sup>2</sup>

**EXPERIMENTAL** 

SITE

2700m<sup>2</sup>

**FACTORY** 

SITE

300000+
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



































