

Provider for AI Security&Connected Vehicle Solutions

SHENZHEN SEG SMARTECHS CO.,LTD.

COMPANY PROFILE

Founded in 1999, SEG SMARTECHS Co., LTD. specializes in the R&D, manufacturing and operation services of AI Security , automotive networking and connectivity products, providing customers with complete digital technology solutions of "intelligent hardware, big data platform software, and customized analysis services".



Industry
experience

>27 years



Application
Fields

>20



City
Coverage

>500

Corporate Mission

Link vehicle with the world, enjoy intelligent life

Corporate Vision

Leading provider of smart connected vehicle solutions

Core Values

Create value for customers, shareholders, employees, and progress for society.



Customers

>1000+



Patents

>360



Terminals

>30 million



HISTORY

1990+

Developed China's first GPS- based police command- and- dispatch system

Awarded the First Prize for Scientific and Technological Progress by the Ministry of Public Security

SEG SMARTECHS Co., LTD was officially established

2000+

Obtained QS- 9000 quality system certification

Automotive electronics products successfully entered the automobile manufacturing plant

K-AUTO Technology LTD. won the "Guangdong Province Famous Trademark"

2010+

Certified as "National Demonstration Base for Industrialization of Beidou- II/GPS Compatible Vehicle Information Terminals"

SEG SMARTECHS Science and Technology Park was opened

Won the China Patent Excellence Award

2015+

Listed on the National Equities Exchange and Quotations (NEEQ, the "New Third Board")

Guangdong Provincial Satellite Navigation Application Engineering Technology Research Center

Shenzhen Satellite Navigation Application Engineering Technology Research Center

Nanshan District Internet of Vehicles Mobile Information Terminal Research and Application Engineering Center

2023+

National Intellectual Property Advantage Enterprise

National Specialized, Refined, Differential and Innovative "Little Giant" Enterprise

Famous high-tech products in Guangdong Province

A well-known brand in Shenzhen

Step into the field of intelligent networking and autonomous driving

Comprehensive Laboratory Capabilities

CAN network



Longevity



Machanical



EMC
Compatibility



Optical imaging



Climate



Electric



Environmental Laboratory



Mechanical laboratory



Optical Laboratory



Salt Spray Laboratory



CAN Network Lab



Electronics Laboratory

PRODUCTION CAPACITY



Smart Manufacturing

The manufacturing center covers an area of 20,000 square meters, with a number of fully automatic SMT production lines, DIP production lines, assembly lines, testing lines, and packaging lines, which can provide procurement, IQC, warehouse management, SMT, peak, assembly, testing, QA and other full-process services.



30000m²

Self-owned National
Science Park, R&D and
factories



Equipment

16949 certified SMT/DIP
Lines



Labs & Testing

Zero-defect Pre-installed
Solutions

QUALITY SYSTEM

01

POLICY

Quality Policy: Deliver high-quality products and satisfy customers with premium products and services

02

SYSTEM



IATF16949



ISO9001



ISO14001



ISO45001



ISO27001

03

TOOLS

APQP

PPAP

MSA

SPC

FMEA

HONORS

SEG Smartechs takes technology-driven as its core concept, and its professional strength has been confirmed in a number of national, provincial and municipal and industry-level awards.

01

Patent licensing

Nonstop Creating

02

National certification

Authoritative recognition

03

Industry innovation

Industrial- Leader as always

Innovation

Industry-leading

Nationally recognized

Expertise

Credibility

Market influence

360+
National patent
authorization



50+
National qualification
certification



100+
Recognized form
industry authorities



ADVANTAGES



Experienced In The Industry

>27 years industrial Experiences



Extensive Industrial Chain

>500 Industrial Partners



Automotive-Grade Quality

IATF16949 、 ISO9001 Global
Top World-Class



Customized Solutions

Full-procedure-OEM/ODM
Solution



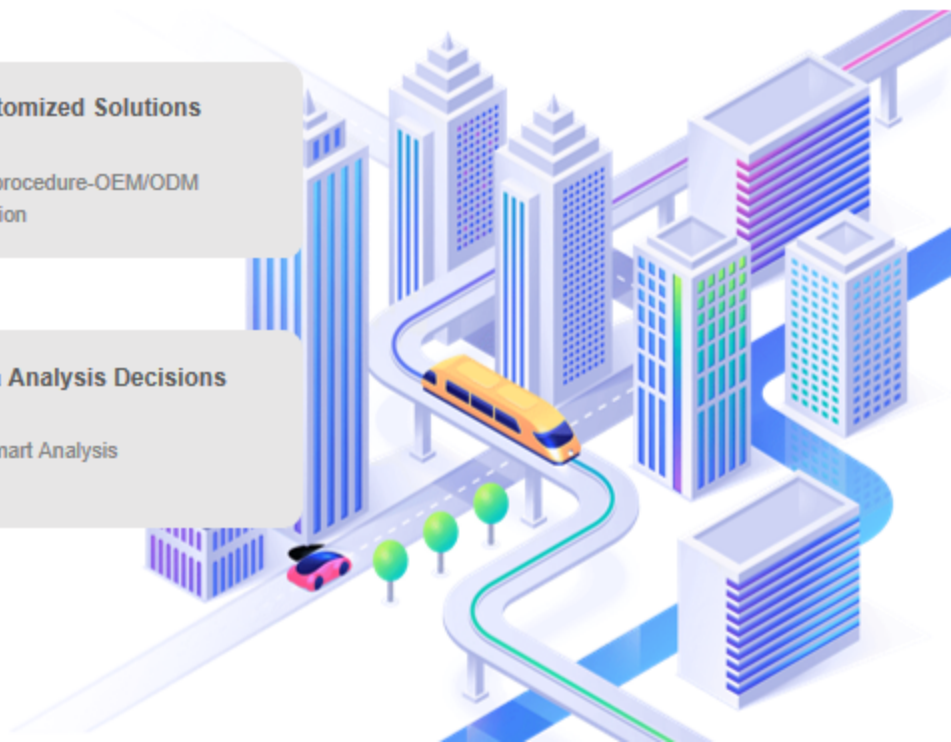
Service & Technical Support

24 hours*7days online



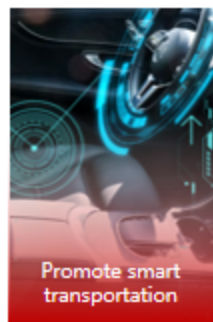
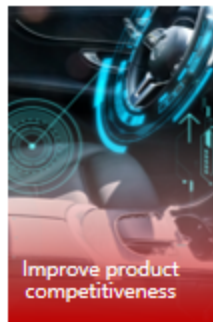
Data Analysis Decisions

AI Smart Analysis



Vehicle-Level Intelligent Solutions

The vehicle intelligent solution integrates body domain control, body communication and in-vehicle vision technology, and provides one-stop services for the R&D and manufacturing of customized automotive intelligent parts products for global OEMs for different models and application scenarios of passenger cars and commercial vehicles, helping the industry build a more three-dimensional smart travel ecology.



▶ Application scenarios

Commercial vehicles, passenger vehicles, new energy



Vehicle 5G Telematics Domain Controller



Function

V2X

OTA&Diagnostics

High-precision Positioning

Remote

V-Road

Day1

G-Navi



5G NSA/SA

Centimeter-level positioning
Built-in High-AccuracyIMU
Peak Rate 1.7Gbps
With eMBB/uRLLC/mMTC
ARM Cortex-A35 processor
NO-GNSS Environmental position tracking



Communication and connectivity

CAN (CANFD)
Gigabit Automotive Ethernet
USB3.0/USB2.0
WIFI5/WiFi6



Support Standards

Scalable C-V2X applications

- 5G Standard: 3GPP R15

Standards :

- GB/T 32960.2-2016
- HJ1239-2021
- GB 17691-2018

► Application scenarios

Vehicle&Road collaboration, Autonomous Driving,Advanced Assisted Driving, Intelligent Networking fields.

5G Module	Built-In 5G Module,support SA and NSA mode, Support 5G/4G/3G/2G
V2X Featur	V2X Day1 16 scenarios; up to 300m, >200 vehicles
GNSS	Built-In BD/GPS/Galileo/Glonass,etc. Supports QDR 3.0 protocol and RTK high-precision positioning with an error margin of less than 1.5m
Ethernet	Support 1000Mbps &100Mbps Ethernet for Vehicle Supports DoIP & SOME/IP
WIFI	WIFI6, 802.11 a/b/g/n/ac; WIFI and STA/AP
CAN	Support 2*CAN/CANFD, and Support Max 2Mbps Support OSEK Net Management
Security Feature	Secure Boot, HSM, PKI/TLS and access control
Work Temp.	-40℃ ~+85℃
Storage Temp.	-40℃ ~+90℃
Humidity Range	20~95%RH
Size	203 * 170 * 38 mm

Automotive Ethernet Terminals



Function



Built-In OTA SDK	Support Built-In third part OTA SDK,support firmware safely download and storage.
Built-In Large Storage	Built-In 8GB EMMC Storage.Easily expanded to 16GB or 32GB
USB Driver support	Support provide network channel for hole vehicle by USB,support Linux/Android and other drivers.
Operating voltage	Power supply voltage: 9~16V; The working rated voltage is 12V
Operating current	Max working current≤ 500mA/12V; The maximum operating current ≤ 800mA/12V
Standby current	) ≤3.5mA (remote wake-up), ≤1mA (no remote wake-up)
Operating temperature	-40℃~85℃
Storage temperature	-40℃~85℃
Standards	GB/T 32960.2 HJ 1239.1

► Application scenarios

EV Location Sevices,heavy-Duty Diesel Vehicles Location Services, Risk-Control Location Services, and Telematics Services

Telematics Terminal for ICE-powered Vehicles



Function



Built-In OTA SDK	Support Built-In third part OTA SDK,Supports secure firmware download and storage
Built-In Large Storage	Built-In 8GB EMMC Storage.Easily expanded to 16GB or 32GB
Operating voltage	9-32V
Operating current	≤1A/12V
Standby current	≤1mA/12V (with CAN wake-up)
Sleep current	≤3.5mA/12V (Wake-on-LAN supported)
Standby current	≤3.5mA/12V (Wake-on-LAN supported)
Operating temperature	-40℃~+85℃
Storage temperature	-40℃~ +85℃
Standards	GB/T 32960.2 HJ 1239.1、 GB 44495-2024、 GB44496-2024、 GB/T 45086-2024、 GB 45672-2025、 GB/T43187—2023、 GB/T 43187-2023

New Energy Terminals



Function

Data Acq

OTA

CAN

Audio

Encrypt

Battery

Beidou

Operating voltage	9-32V (supports 12V and 24V systems)
Operating current	≤300mA/12V
Standby current Sleep current	≤4mA/12V ≤1mA/12V
Protection level	IP5K0
ESD protection	±8KV/±15KV(Air)
Operating temperature	-40℃ ~ 85℃
Storage temperature	-40℃ ~ 90℃
Standards	GB/T 32960.2 HJ 1239.1、GB 44495-2024、GB44496-2024、GB/T 45086-2024、GB 45672-2025、GB/T43187—2023、GB/T 43187-2023

► Application scenarios

EV Location Services, and Telematics Services fields.

Logistics Monitoring Terminal



Function

Data Acq

OTA

Beidou Dual

DMS

Battery

RS485

Encrypt

Multi-Platform

Operating voltage	9-36V (supports 12V and 24V systems)
Operating current	≤300mA/12V
Standby current Sleep current	≤4mA/12V ≤1mA/12V
Protection level	IP5K2
ESD protection	±8KV/±15KV(Air)
Operating temperature	-40℃ ~+85℃
Storage temperature	-40℃ ~+95℃
Standards	GB/T 32960.2

► Application scenarios

EV and Truck Telematics Services fields.

eCALL / EU eCALL



Function

Locating

SOS

NG eCall

Trigger

Message

Battery

Encrypt

Long Call



eCall EU Regulation

Regulation (EU) 2015/758
Regulation (EU) 2017/79
Regulation (EU) 2024/1180
Regulation (EU) 17240:2024
UN R.144



eCall Saudi

Meets Saudi Arabia's
draft SASO 2944
"Technical
Requirements for
Motor Vehicles –
Emergency Call "eCall"



Russia ERA

Comply with the relevant
requirements of the
Russia and East Asian
Union ERA for
emergency rescue
UAE.S 5019:2018 and
other relevant
regulations

Operating current	≤400mA/12V
Operating voltage	9-32V
Standby current	≤3mA/12V ≤3mA/12V (support local wake-up such as ACC/CAN)
ESD protection	±8KV/±15KV
Operating temperature	-40℃~+85℃
Storage temperature	-40℃~+85℃
Relative humidity	0~95%RH
Ingress protection	≥IP5K0

NG eCall



Function

Trigger

Manual

NG eCall

SOS Button

Data

Audio

Remote

Multi Mode



eCall EU Regulation

Regulation (EU) 2015/758
Regulation (EU) 2017/79
Regulation (EU) 2024/1180
Regulation (EU) 17240:2024



eCall Saudi/United Arab Emirates

Meeting the Saudi SASO
2944-2023 "Motor Vehicles —
Technical Requirements for
Emergency Call "eCall"
Compliant with UAE
regulations UAE.S 5019-2018



Russia ERA

Comply with the relevant
requirements of the Russia and
East Asian Union ERA for
emergency rescue UAE.S
5019:2018 and other relevant
regulations

Operating current	≤300mA/12V
Operating voltage	9-36V
Rated Voltage	12V/24V
ESD protection	±8KV/±15KV
Operating temperature	-40°C~+85°C
Storage temperature	-40°C~+85°C
Relative humidity	5%~95%RH
Ingress protection	IP52~IP54

Body Domain Controller



Function

Light

Wiper

PEPS

Gateway

Door

Anti-Theft

TPMS

Anti-Pinch

CAN/CAN FD/LIN	≥8/≥8/3	3/1/2	6/3/3
Diagnosis	UDS	UDS	UDS
Network Management	AUTOSAR / OSEK	AutoSar/OSEK	AutoSar/OSEK
Core Features	Doors locks, lights, wipers	Doors, locks, lights, wipers	Doors, locks, lights, wipers
Integrated Features	PEPS, TPMS, GW, Anti-pinch System, rearview mirror folding	PEPS, TPMS,	PEPS, TPMS, GW, Anti-pinch System
Functional Safety	Lights, gateways, glass rising	Turn Lights	Turn Lights, Gateway
Operating Voltage	12V/24V	12V	12V/24V
Operating Current/Sleep Current	500mA/<1.5mA/4mA	250mA/<1.5mA/4mA	250mA/<1.5mA/4mA
Operating/storage temperature	-40℃ ~ 85℃ -40℃ ~ 105℃	-40℃ ~ 85℃ -40℃ ~ 105℃	-40℃ ~ 85℃ -40℃ ~ 105℃
Operating humidity	10% ~ 95% RH	10% ~ 95% RH	10% ~ 95% RH

Body Control Module (BCM)



Body Control Module (BCM)



Vehicle Bluetooth Digital Key



Function

Sharing

BLE

UWB

NFC

OTA

Encrypt

Authorization

Operating Frequency	2.4GHz
Operating Voltage	9V-16V /12V
Operating Current	≤200 mA
Sleep Current	≤2mA
Maximum Transmit Power	5dBm
Maximum Receive Sensitivity	- 97dBm
Bluetooth link reliability	≥ 85 %
Receive and Demodulate mode	GFSK
Effective Range	10 m
Connection distance	≥50m
Operating Temperature	-40℃ — 85℃
Storage Temperature	-40℃ — 95℃

► Application scenarios

For different types of vehicles,such as EV,Fuel Vehicle,etc.

Smart Remote Key



Function

Smart Key

Remote

Far Distance

Reemote

433.92MHz

LED Indicator

High Frequency	433.92Mhz
Low Frequency	125KHz
Maximum Receive Sensitivity	- 97dBm
Connection Distance	≥30m
Sleep Current	5 ~ 7uA
Receive and Demodulate Mode	GFSK
Operating Temperature	-30℃ ~ +70℃
Storage Temperature	-40℃ — 85℃

► Application scenarios

Providing the customized design.

CAN

Gateway



CAN

Gateway



CAN/FD

Gateway



Ethernet

Automotive Ethernet Gateway



Function

Protocols

File

Message

Diagno

Encrypt

Network

OBD

Ethernet

CAN	6	4	6	≥8
CAN FD	-	3	3	≥8
LIN	3	3	3	≥3
Ethernet Channel (ETH)	/	-	-	(1~3)*Mega+≥(3~6) 1000
General-purpose I/O (GPIO)	3*IN/3*OUT	3*IN/5*OUT	3*IN/5*OUT	3*IN/-*OUT
Diagnostics	UDS	UDS	UDS	UDS/DOIP
Network Management	AUTOSAR / OSEK	AUTOSAR / OSEK	AUTOSAR / OSEK	AUTOSAR / OSEK
CyberSecurity	/	R155/GBT 40857/GBT 44495	R155/GBT 40857/GBT 44495	R155/GBT 40857/GBT 44495
OTA	Yes	Yes	Yes	Yes
Secure boot	/	Safe Boot	Safe Boot	BL Safe Boot
Functional Safety	/	ASIL-B	ASIL-B	ASIL-B

Vehicle Location & Asset Management Solutions

Based on global satellite positioning technology and communication technology, through the installation of GPS/Beidou intelligent positioning terminals, real-time acquisition of vehicle location, distribution, speed, driving trajectory and other information. The cloud platform uses big data for multi-dimensional integration and analysis, and provides solutions for location management, asset management, risk control, fraud prevention and control, and user service for vehicles.



Application scenarios

Auto Finance Risk Control, Vehicle Mortgage and Leasing, Logistics and Fleet Management, Official Vehicle Management



4G Wireless Tracker



Function

Remote Reset

Anti- tamper

Smart Tracing

Remote

Mileage

AGPS

Low-V Alarm

Built-in battery specifications	Disposable high-capacity batteries
Operating temperature	-20°C ~ 70°C
relative humidity	93% (40 degrees Celsius)
Location monitoring	Upload location information at a scheduled time (timer mode, alarm mode)
AGPS function	The AGPS terminal has the AGPS function, when the terminal is connected to GPRS, the AGPS function can be used to speed up the positioning speed of the GPS module
Additional WIFI and base station positioning	The terminal uses GPS positioning by default, and when GPS cannot be located, the terminal automatically switches to the additional WIFI base station positioning
Battery low voltage alarm	The terminal can detect the built-in battery voltage in real time and upload it to the server in real time; When it detects that its own voltage is lower than the preset value, the device will take the initiative to report a low-voltage alarm
Smart tracking feature	When it is necessary to track the location of the vehicle in real time, you can send a short message command or set the platform to issue a command, and the terminal can enter the tracking state when it receives the instruction next time it works

Extra-Long Standby



Function

5 Year

Anti- tamper

Smart Tracing

Remote

Mileage

AGPS

Low-V Alarm

Operating voltage	DC 3V
Operating current	45~75mA@3V
Standby current	Less than 15uA
Positioning error	GPS positioning error < 10m The positioning error of the base station is based on the density of the base station in the area WIFI positioning < 30m
Communication networks	4G
Methods of Communication	TCP、UDP
Operating temperature range	-20°C ~ +70°C
Storage temperature range	-40°C ~ +85°C

Wireless Tracker



Function

Location

Detach Alarm

Remote Reset

Remote

Mile Rec

AGPS

Low-V Alarm

Communication frequency bands	GSM850/900/1800/1900MHz quad-band system is available worldwide
Voltage input range	3V
Ingress protection	IP5X
Positioning	GPS+BDS+LBS
Positioning accuracy	≤10 meters
Operating temperature	-20℃ ~+70℃
Positioning time	Average Hot Start: ≤10sec (Open Sky) Average Cold Start: ≤45sec (Open Sky)

Tank Locator



Function

Location

Waterproof

Hidden

Location

Small Size

Super Low-Power

It integrates functions such as dual positioning, small waterproof, and ultra-long standby, and the slender body is super waterproof, so that the positioning terminal can be easily placed into the vehicle water tank and other water storage containers and work normally, doubling the concealment, which can be used as the last line of defense for security monitoring

Housing material	Heat shrink tubing seals
Ingress protection	IP68
Positioning	WIFI+LBS
Built-in battery specifications	Disposable high-capacity batteries
Operating temperature	-20℃ ~+70℃
Battery capacity	1400/2200mAh (CR123A/CR17450)
Communication networks	4G

All-in-one AI Mobile Video Terminal (MDVR)



Function

3-Axis Acc

Reverse BSD

Human recognition

ADAS/DSM

EX-HOD

Imaging

Sign Recogn



Intelligent Algorithm Video Machine



Function

Collision alarm

Lane deviation

DMS

ADAS/DSM

Fatigue Alarm

Smoking Alarm

Network Communications	4G+WIFI
Positioning	GPS Beidou dual-mode, positioning error < 10m
Operating temperature	-25°C~75°C
Storage temperature	-40°C~90°C
relative humidity	10%~95%
Main chip	At least 3 lenses work at the same time, video reversing image Active Safety Algorithm (ADAS DMS) Remote viewing and uploading of local video and real-time alarm events
G-sensor gyroscope	Event detection for sharp acceleration/deceleration/sharp turn of the vehicle
Storage	It can support up to 512G storage, three-way camera screen, storage (including rearview images), and use plugging and unplugging TF card slots
Self-diagnosis	Camera diagnostics, device indicators, memory failures, unplugging/undervoltage diagnostics, camera exceptions

CPU	Dual-core 1.2GHz
RAM	2Gb 16-bit DDR3(L)
Video format	H265/H264
Audio format	PCM, WAV
Built-in speaker/MIC	Yes, mono
Front-facing camera	1/2.9", 2,000,000 pixel CMOS sensor ; D:125° H:105° V:58° 1920*1080 resolution; 1080p@30fps frame rate
Inward-facing camera	1/3", 2 million pixel CMOS sensor ; D:120°H:100° V:45°; 1920*1080 resolution
Power supply	ACC or cigarette lighter, power supply voltage 12-24V
Memory	Support TF card, up to 512GB, Class 10 and above, FAT32
G-sensor gyroscope	3-axis accelerometer

Beidou(only) Tracker



Function

Location

Detach Alarm

Tracking

Remote

Mile Rec

AGPS

Low-V Alarm

Operating voltage	DC 9~36V
Operating current	35 ~ 45mA@12V
Targeting method	BD
Positioning error	<10m
Communication networks	LTE
Methods of Communication	TCP/UDP
Operating temperature	-25℃ ~ +75℃
Storage temperature range	-40℃ ~ +85℃
Product weight	Approx. 300g
Back-up battery operating time	Under the premise of full charge, the battery can work continuously for about 2 - 3h

Multi-Line Tracker



Function

Location

Optical anti-tamper

Smart Command

Trajectory

mileage

AGPS

Low-V Alarm

Operating voltage	DC 9~90V
Operating current	20~30mA@12V
Standby current	Less than 1.6mA
Positioning error	GPS< 10 meters
Capture sensitivity	-143dB
Tracking sensitivity	-159dB
Ceramic antennas	Built-in GPS/BD dual-mode ceramic antenna 18*18*2
Communication networks	GPRS
Frequency bands are supported	LTE-FDD: B2/B3/B4/B5/B7/B8/B28/ B66 GSM: B2/B3/B5/B8
Methods of Communication	UDP/TCP is based on the communication protocol
GPRS	Class12 TCP/IP build

Wired On-vehicle GNSS Tracker



Function

Locaing

Anti-Detect

Tracking

History

Milage

AGPS

Low-V Alert

Input voltage	12V DC/24VDC
Average operating current	30-50mA@12V
Targeting method	GPS+BDS+LBS
Standby current	5mA
USB output voltage	5V DC
USB output current	1.5A+1.5A
Operating temperature	-20°C — +70°C
Gravitational acceleration	±2G
Built-in battery	not
Communication networks	4G

OBD-plug-in Telematics Terminal



Function

Communicate

Diagnosis

Data Acq

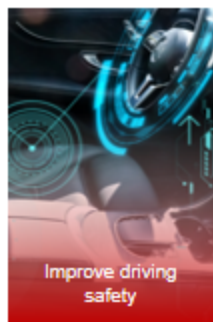
Locating

Real-Time Monitoring

Targeting method	GPS+BDS
Operating voltage	DC9V-36V
Average operating current	<150mA
Maximum operating current	<200mA
Sleep current	<3mA
Built-in battery	3.7V/90mAH (Optional)
Three-axis accelerometer	+/-16g, driving behavior detection
Data Transmission Method	LTE/ HSPA/ GPRS/ SMS supports China Mobile, China Unicom, China Telecom, and is compatible with IoT cards
WIFI	IEEE 802.11a/b/g/n/ac wireless transmission protocol generates WIFI hotspots under 4G network and shares the network
Operating temperature	-20°C ~ +70°C

Vehicle-mounted Intelligent Video Surveillance Solutions

Based on global satellite positioning technology and communication technology, the installation of GPS/BeiDou intelligent positioning terminals enables real-time acquisition of vehicle information including location, distribution, speed, and travel trajectory. By utilizing cloud-based big data platforms for multi-dimensional analysis and integration, this system provides automotive finance companies with comprehensive solutions for asset management, risk control, fraud prevention, and user services.



► Application scenarios

Mini trucks, heavy trucks, taxis, ride-hailing



Multi-channel All-in-one Mobile DVR (MDVR)



Function

Collision Alarm

Lane deviation

DMS

ADAS

Fatigue Alarm

Smoking Alarm

Video input	Resolution: 1080P in the front, 720P/1080P in the rear; Front 2 million sensor, D137/H105/V56, focal length F3.8mm (FH4019); Rear 720P AHD analog HD, D145/H118/V62, focal length F2.8, with infrared night vision function (RC1729), 2-way 720P AHD analog HD
Video standards	PAL/NTSC
Video compression format	H.264/H.265 compression format
Recording resolution	Support 1080P, 720P, D1 optional, encoding total resources 1080P 100 frames
Video quality	Levels 1 to 8, best level 1, minimum level 8
Recording rate	PAL: 100 frames/s, CCIR625 line, 50 fields NTSC: 120 frames/s, CCIR525 line, 60 fields; CIF: 256Kbps ~ 1.5Mbps, multi-level image quality optional HD1: 600Kbps ~ 2.5Mbps, multi-level image quality optional D1: 800Kbps ~ 3Mbps, multi-level image quality optional 720P: 1Mbps~4Mbps, multi-level image quality optional 1080P: 1Mbps~8Mbps, multi-level image quality optional

Smart Cloud Recorder



Function

Audio

APP Control

4G+WIFI

Video

GPS

watchdog

Monitoring

CPU	Dual-core A53 1.3G
Camera	Pre-MIPI: GC2053 1080p Post-Recording-USB: 480p USB HD Rear Pull Camera (V06)
MIC	Single-microphone, microphone with two independent ADC channels for echo and noise cancellation
Loudspeaker	Built-in 8Ω/1W SPKBOX, good sound quality, no sound breaking
G_sensor	Support collision auto-save recording
On-board professional power supply	12V/1A (connected to on-board constant power)
Operating current	≤0.3A@12V
Sleep current	≤5mA@12V@ anti-theft mode; ≤0.2mA@12V@ shutdown mode
Supply voltage	12V/0.5A (connected to the car fuse box for constant power)
Operating temperature	-20°C ~ +70°C

X7



X8



X9



X10



Version	4G/WIFI/POE	4G/WIFI/POE	4G/WIFI/POE	4G/WIFI/POE
Solar Panel	60W	80W	80W	80W
Battery Capacity	40Ah battery pack	45Ah battery pack	45Ah battery pack	45Ah battery pack
APP	Camhi /CamhiPro	Camhi /CamhiPro	Camhi /CamhiPro	Camhi /CamhiPro
Lens	30X Zooming	30X Zooming	36X Zooming	30X Zooming
Resolution	5MP/8MP (Optional)	5MP/8MP (Optional)	5MP/8MP (Optional)	5MP/8MP (Optional)
Compression	H.264+H.265			
Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP			
Recording	24/7 Nonstop Recording			
Detection Mode	PIR Human detection +AI Human detection +FULL COLOR Night Vision			
Detection Range	Up to 500M	Up to 500M	Up to 500M	Up to 500M
Alarm Mode	Message Immediate Alerts / Audio Alarm /Lighting Alarm			
PTZ Angle	Horizontal 355 °Vertical 90°			
2-Way Audio	Built-in Mic & Speaker	External Speaker Siren	Built-in Mic & Speaker 3.5W (Range up to 20M)	
WiFi Protocol	802.11 a/b/g/n/ ac (2.4 GHz)			
4G Frequency Bands	Global Coverage for EU /US/ AU /JP /ASIA and Others			
Cloud Storage	Cloud storage, storage when alarm recording			
Local Storage	TF Card up to 256G			
Languages	English, Russian, Italian, French, Polish, Dutch, Portuguese, Spanish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Portuguese etc			
Temperature	-30°~+85°			
Humidity	10% ~ 90%	10% ~ 90%	10% ~ 90%	10% ~ 90%
Protection	IP68, Wind resistance 12 level, up to 40 m/s wind speed resistance			
Certificate	CE / FCC / ROHS / WEEE			

mDR4



mDR6



mDR8



HDR8



Type	4-Ch DVR Kit	8-Ch DVR Kit	8-Ch DVR Kit	8-Ch DVR Kit
Operating System	Linux	Linux	Linux	Linux
AI Features	DSM / ADAS / BSD / People Counting			
Frame Rate	30-60FPS	30FPS	30FPS	30FPS
Loop Recording	YES	YES	YES	YES
Display	Optional	Optional	Optional	Optional
Mobile APP	CMSV7/CMSV6 / 808 / 1078 / 1076			
Alarm	4CH/8CH Alarm			
Video Format	MP4 / MP5 / PAL / NTSC			
Protection	Low-Voltage Protection	Low-Voltage Protection	Low-Voltage Protection	Low-Voltage Protection
Audio	Built-in Speaker and Microphone/Alarm;	Built-in Speaker and Microphone/Alarm;	Built-in Speaker and Microphone/Alarm;	Built-in Speaker and Microphone/Alarm;
Audio bit rate	16K-192Kbps	16K-192Kbps	16K-192Kbps	16K-192Kbps
Memory	HDD 2T + SD Card 256G	SD Card 256G x 2	HDD 2T + SD Card 256G	HDD 4T + SD Card 256G
Parking Monitoring	Yes	Yes	Yes	Yes
Smart Features	WDR / HDR / G-Sensor / AI Gesture Detection			
GPS Built-In	Yes	Yes	Yes	Yes
Languages	English / Russia / Espanol / French / Italian / Portugese / Korean / Thai / Japanese / Polish / Vietnamese etc			
Interfaces	TF CARD/ SIM Card/USB (with mDVR)/RS232 / RS485/RJ45 (Optional)			
Power Supply	Vehicle Battery / DC9-36V 2A	Vehicle Battery / DC9-36V 2A	Vehicle Battery / DC9-24V 2A	Vehicle Battery / DC9-36V 2A
Waterproof	IP65	IP65	IP65	IP65
Operating Temperature	-10°C ~ 70°C (14°F ~ 158°F)	-10°C ~ 70°C (14°F ~ 158°F)	-10°C ~ 70°C (14°F ~ 158°F)	-10°C ~ 70°C (14°F ~ 158°F)
Operating Humidity	10% ~ 90% non-condensing	10% ~ 90% non-condensing	10% ~ 90% non-condensing	10% ~ 90% non-condensing
Certification	CE, FCC, RoHS, WEEE	CE, FCC, RoHS, WEEE	CE, FCC, RoHS, WEEE	CE, FCC, RoHS, WEEE

SP20



SP50



SP60



SP80



Version	4G/WIFI/POE	4G/POE/GPS	4G/WIFI/POE/GPS	4G/WIFI/POE/GPS
AI Capacity	1T@1.2G Dual Core	1T@1.2G Dual Core	NA	NA
Database	10+ Languages LPR , White List		P: 0°-360° T: 0°-90° Patrolling, Scanning, LPR	
Features	Detect / Capture / Compare / Track / Rate / Filter / White List / Black List ...			
Image Sensor	2.8mm lens 120° CMOS	3.6mm lens 130° CMOS	3.6mm lens 130° 20X CMOS	3.6mm lens 130° 40X CMOS
Compression	H.264+/H.265			
Protocol	ONVIF, GB28181, GAT1400,TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP,RTP, RTSP, RTCP, NTP, SMTP			
Resolution	2MP/3MP/5MP/8MP	2MP/3MP/5MP/8MP	2MP/3MP/5MP/8MP	3MP/5MP/8MP
Recording	Recording @ Motion Detection	24/7 Nonstop Working	Recording @ Motion	24/7 Nonstop Working
Detection Mode	Radar Scanning+AI Human detection @ FULL COLOR Night Vision			
Detection Range	Up to 20M	Up to 50M	Up to 200M	Up to 300M
Alarm Mode	Message Immediate Alerts / Audio Alarm /Lighting Alarm /AI Intrusion Alarm +Laser Dispensing (Customization)			
PTZ Angle	Horizontal 355 °Vertical 90°			
Lighting	Max. 1,000Lumens	1,000Lumens @6500K	1,500Lumens @6500K	1,500Lumens @6500K
2Way Audio	Built-in Mic & Built-in Speaker 3-5W (Range up to 20M)			
WiFi Protocol	802.11 a/b/g/n/ ac (2.4 GHz)			
4G Frequency Bands	EU/RU/ASEAN and Others			
Smart Features	Amazon Alexa (Smart Voice Control), Echo Show / AI Intrusion Detection / Line Crossing Detection			
Data Storage	Cloud storage, storage when alarm recording / TF Card up to 256G			
Languages	English, Russian, Italian, French, Polish, Dutch, Portuguese, Spanish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Portuguese etc			
Temperature	-30°~+70°			
Humidity	10% ~ 90%			
Protection	IP68, Wind resistance 12 level, up to 40 m/s wind speed resistance			
Certificate	CE / FCC / ROHS / WEEE			

TEMPERATURE AND HUMIDITY MONITORING

In order to ensure unbroken cold-chain transportation, SEG Smartechs automatically monitors and records the temperature and humidity of the vehicle in real time through the cold chain vehicle temperature and humidity monitoring system, providing customers with digital and intelligent cold chain transportation management services.



Temperature and humidity monitoring



Abnormal alarm to ensure safety



Intelligent dispatch of vehicles



Easy and hassle-free installation

► Application scenarios

Medical vaccines, food, fruits and vegetables, cold storage, laboratories, agriculture and other fields that require environmental temperature monitoring



4G Temperature And Humidity



Function

[Alarm](#)[Temp&Humid](#)[Fleet Manage](#)[MEM](#)[Remote](#)[Output](#)[Hot Plug](#)[Remote View](#)[OTA](#)

Temperature measurement	$\pm 0.5^{\circ}\text{C}$ (-10 ~ +45 $^{\circ}\text{C}$) $\pm 1^{\circ}\text{C}$ (45 ~ +70 $^{\circ}\text{C}$) $\pm 2^{\circ}\text{C}$ (-40 ~ -10 $^{\circ}\text{C}$)
Temperature measurement	-20~ 80 $^{\circ}\text{C}$ (built-in), -40~ 70 $^{\circ}\text{C}$ (external)
Humidity measurement	$\pm 5\%\text{RH}$ (20%~80%RH) $\pm 8\%\text{RH}$ (other ranges)
Humidity measurement	1 ~ 99%RH
Ingress protection	IP67
Resolution	0.1
Network standard	GSM/4G、LTE-FDD、LTE-TDD 850/900/1800/1900MHZ
Local data logging	65,000 entries, cyclic recording, automatic overwriting
Off-line (dead-zone) data buffering	24,000 entries, cyclic records, automatic overwrite, clear after supplemental transmission
Alarm prompt for exceeding the standard	LED light, buzzer (can be turned on and off by configurable software), SMS or email (platform alarm)
Shock resistance	Compliant with GB/T 2423.8-199

Multi-Cycle Temp & Humi Logger



Type of use	Monotherm/lukewarm/humid
Temperature range	-30 $^{\circ}\text{C}$ ~-70 $^{\circ}\text{C}$
Humidity range	0~99%RH
Temperature accuracy	$\pm 0.5^{\circ}\text{C}$
Humidity accuracy	$\pm 3.0\%\text{RH}$ (25 $^{\circ}\text{C}$, 20%RH~90%RH) $\pm 5\%\text{RH}$
Resolution: temperature	0.1 $^{\circ}\text{C}$, 1%RH
Storage capacity	35000条 (PDF) , 20000条 (PDF&CSV)
Report type	PDF/CSV/PDF&CSV
Event tags	Event markers can be performed 9 times
Alarm settings	6 alarm points can be set
Number of days of operation	Up to 180 days per battery
Recording intervals	1 minute ~ 24 hours
Startup delay	0 minutes ~ 24 hours

Single-use Temp & Humi Logger



Type of use	disposable
Temperature range	-30 $^{\circ}\text{C}$ ~-70 $^{\circ}\text{C}$
Temperature accuracy	$\pm 0.5^{\circ}\text{C}$
Display type	LED lights
working hours	30/90/180/240 days
Parameter configuration	Factory preset
Storage capacity	129,600 groups
Chip	Digital chips
Ingress protection	IP67

MODERN SMART AGRICULTURE

In the field of agriculture, it focuses on the R&D and promotion of smart agriculture networked information terminals, and applies the technology of "Beidou Information Terminal Cloud Platform" to provide agricultural machinery manufacturers and operators with a full range of services such as agricultural machinery data analysis and remote management control, and improve the management efficiency and level of agriculture through information technology.



► Application scenarios

Deep ploughing operation, deep ploughing operation, sowing operation, subsoiling operation, automatic driving

Agricultural Machinery Subsidy Operation Terminal



Real-Time



Digitalization



Modulation

As an agricultural machinery operation equipment installed on agricultural machinery, it can improve the whole process of intelligent supervision of different types of operations such as subsoiling, deep turning, and sowing, and is the key terminal for the interaction between the operation supervision platform and the operation machinery.



Quick positioning

The main engine has a built-in battery, independent Beidou GPS, and 28 seconds of cold start positioning



One machine with multiple sets

The terminal host supports multiple functions of one machine, and can be adapted to a variety of plows through simple debugging



Intelligent data transmission

The terminal comes with a WIFI module, which not only supports 4G wireless communication and breakpoint resumable transmission technology, but also supports WIFI hotspot transmission mode



Agricultural-machine Operation Monitoring Terminal



Function

Data Acq

Touch Display

RT Depth

Remote

Imaging

Audio Alarm

Self-Detect

BeiDou/GNSS receive frequency	Beidou B1, GPS: L1
Positioning accuracy	≤ 2.0 m
Time to first fix	60s for cold start, 5s for hot start, and 5s for recapture
Sensitivity	Trace - 147dBm, Capture - 137dBm
Operating voltage	9V~36V DC
Operating current	≤ 800 mA/12V (average); ≤ 800 mA/12V (peak)
Operating temperature	-30°C~ +75°C
Storage temperature	-40°C~ +85°C
Terminal cold start time	60S
Depth measurement error	≤ 3 cm
Storage space	8G

Agricultural-machine Operation Monitoring Terminal



Function

Data Acq

RT Feedback

4G LTE

Image Acq

OTA

8G MEM

Query

BeiDou/GNSS receive frequency	Beidou B1, GPS: L1
Positioning accuracy	≤ 2.5 m
Time to first fix	60s for cold start, 5s for hot start, and 5s for recapture
Sensitivity	Trace - 147dBm, Capture - 137dBm
Operating voltage	9V~36V DC
Operating current	<3A(12V DC)
Operating temperature	-30°C to +75°C
Storage temperature	-40°C to +85°C
Terminal cold start time	60S
Depth measurement error	≤ 3 cm
Storage space	8G

Agricultural Machinery Monitoring Terminal



Function

Data Acq

RT Feedback

4G LTE

Image Acq

OTA

8G MEM

Query

BeiDou/GNSS receive frequency	Beidou B1, GPS: L1
Positioning accuracy	≤ 2.5 m
Time to first fix	60s for cold start, 5s for hot start, and 5s for recapture
Sensitivity	Trace - 147dBm, Capture - 137dBm
Operating voltage	9V~36V DC
Operating current	<800mA/12V DC
Operating temperature	-30°C~ +75°C
Storage temperature	-40°C~ +85°C
Terminal cold start time	60S

Implement/Sensor Recognition Module



Function

Data Acq

RT Feedback

4G LTE

Image Acq

OTA

8G MEM

Query

Compatibility	The interface standard between the module and the agricultural machinery ensures that the module can be seamlessly connected
Durability	The materials and construction of the modules are adapted to the harsh environment of agricultural operations
Time to first fix	60s for cold start, 5s for hot start, and 5s for recapture
Sensitivity	Trace - 147dBm, Capture - 137dBm
Operating voltage	9V~36V DC
Operating current	<3A(12V DC)
Operating temperature	-30°C to +75°C
Storage temperature	-40°C to +85°C
Terminal cold start time	60S

CLOUD PLATFORM

The cloud data platform deeply integrates artificial intelligence, Internet of Things, big data and cloud computing technologies to build a modular solution cluster covering transportation, finance, agriculture, environmental protection, logistics and other fields. Through a unified data base and flexible microservice architecture, the platform breaks down industry barriers and helps enterprises achieve intelligent upgrading and cross-scenario collaborative innovation.



► Application scenarios

Transportation, smart agriculture, financial risk control, environmental monitoring, intelligent logistics



Cloud Platform

Supports tens-of-millions-scale terminal connections



Millions of cloud service clusters



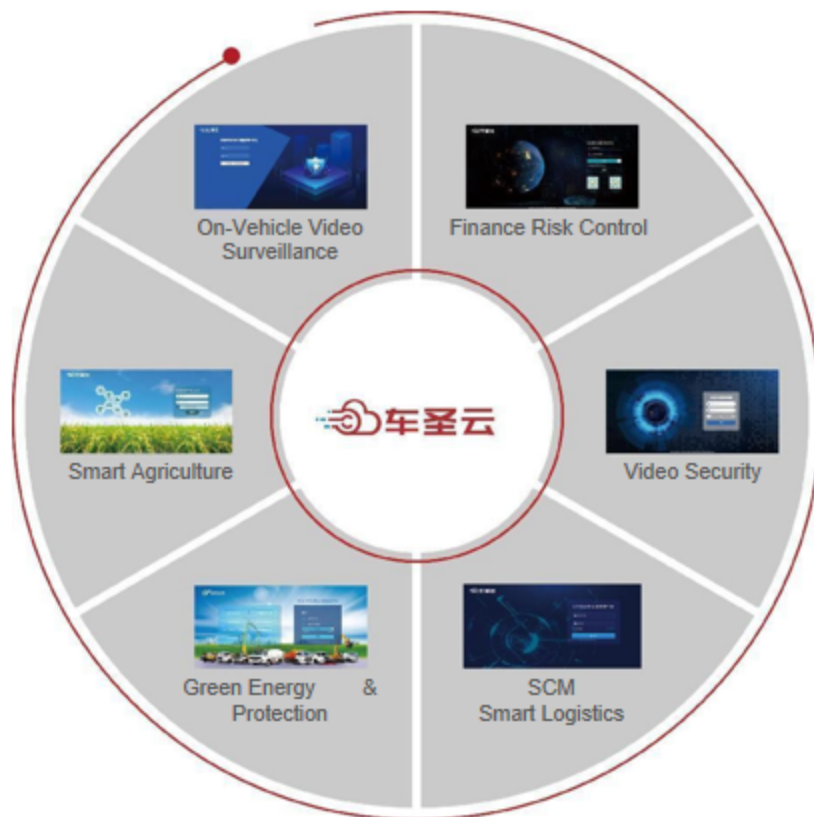
Distributed storage of massive amounts of data



High reliability, high performance, high scalability



Low risk, Low latency, Low cost



Partners



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