ZD DataCloud Big Data Platform



知迪汽车技术

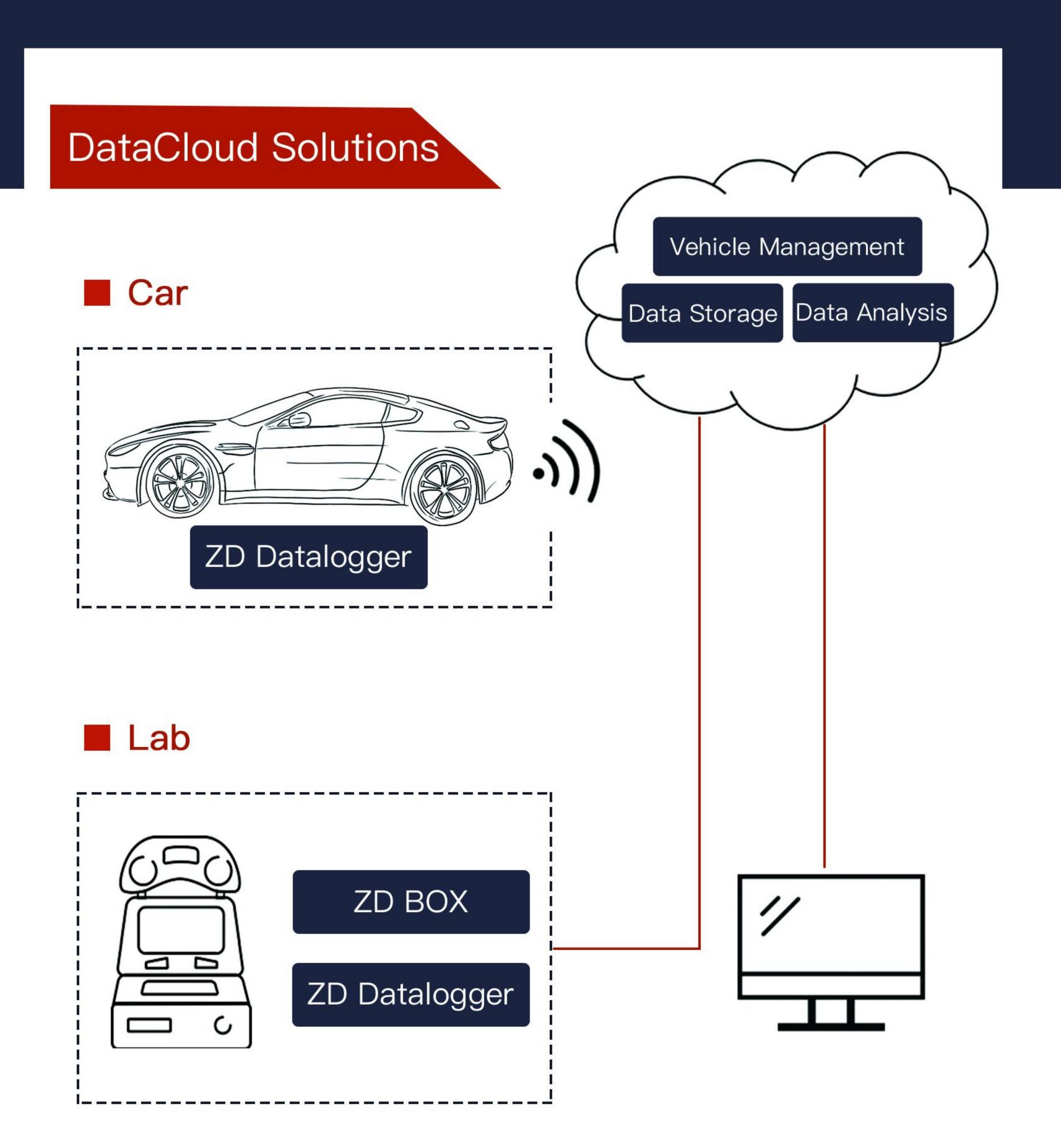
ZD Automotive

ZD DataCloud

With the trend of Internet of Things, the vehicle becomes fully digitalized and intelligent. More than 10G bytes data be recorded on a test vehicle every day. How to fully and efficiently analyze these data, locate defects/events and explore added value is an urgent problem to be solved.

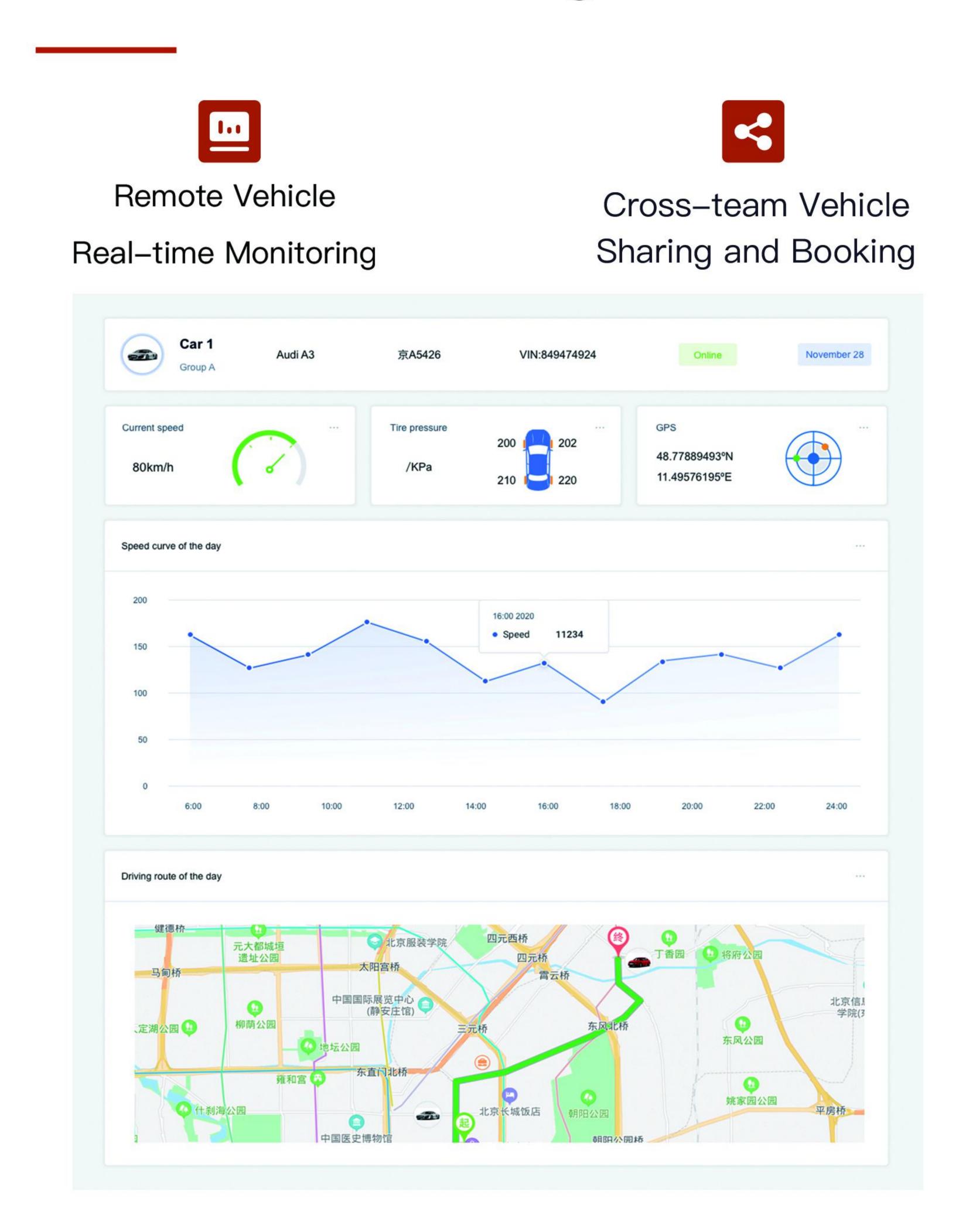
Based on our comprehensive know-how in ECU Software and vehicle Bus-systems, combing with leading technology in the fields of data acquisition, processing and storage, ZD

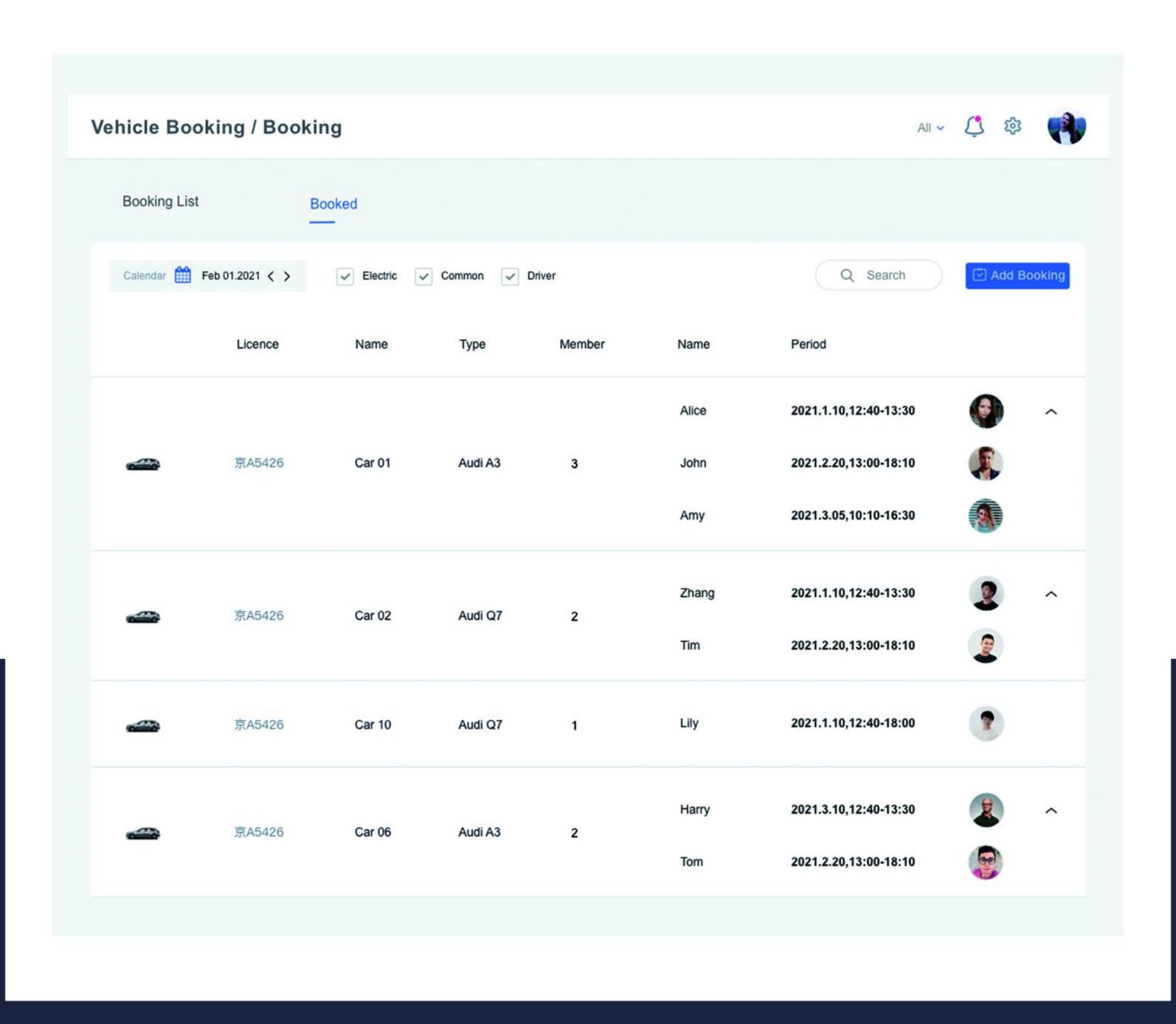
DataCloud provides an innovative cloud-based solution for vehicle big data. This is an evolution from local storage to cloud facilitate vehicle management and data analysis, which greatly accelerates the R&D of next-generation products and services.



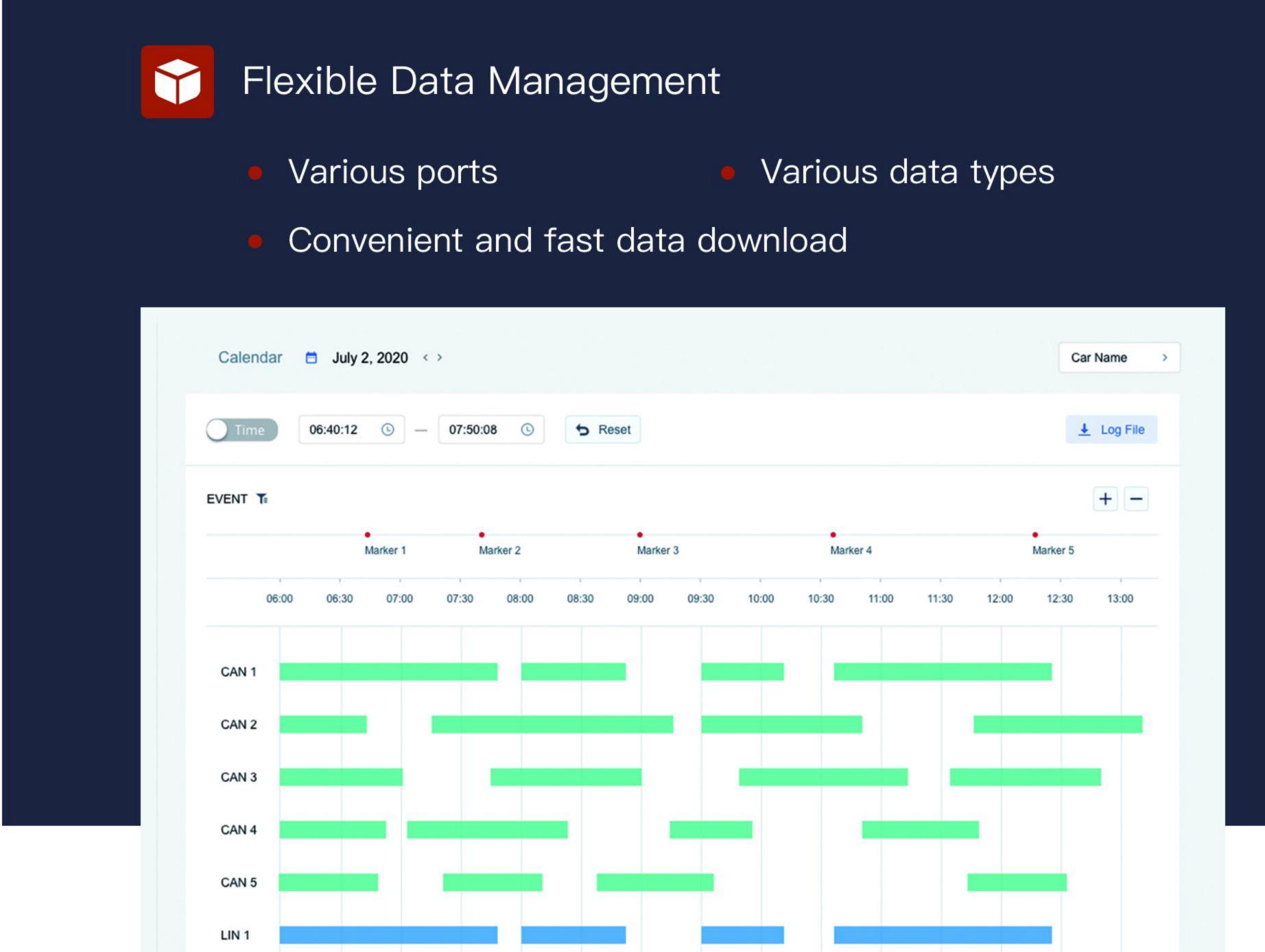
Function

- Vehicle Management



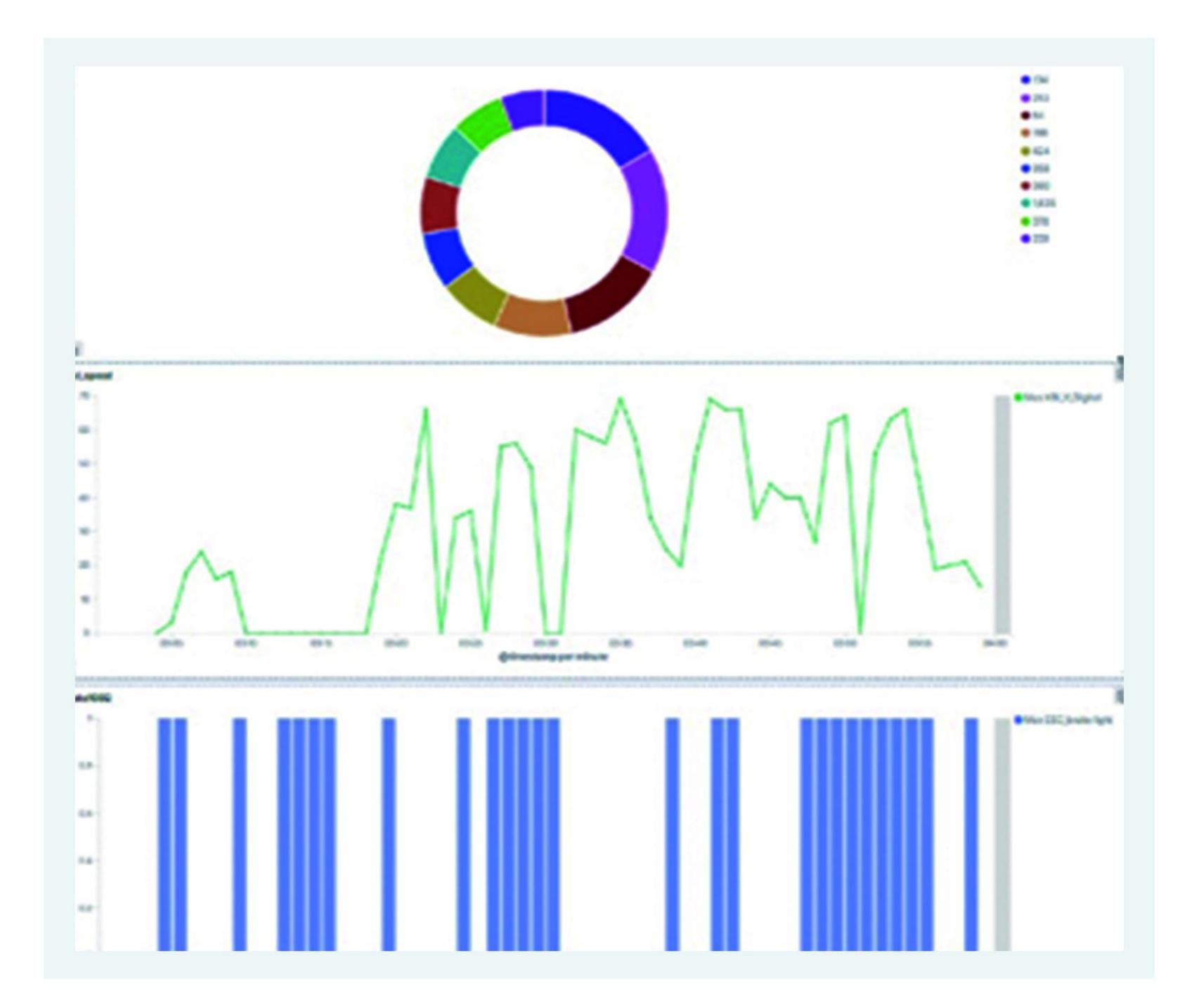


Function — Data Management & Analysis





Al-powered data analysis
 Digital dashboard



Application Scenario

Data analysis & error identification of road test

Road test under various traffic conditions

2 When the driver finds any abnormality or unusual event, make a marker through Datalogger. The marker will be automatically transferred to ZD DataCloud

Relevant data are selected and uploaded to DataCloud in real-time

Generates Dashboard based on Al-powered data analysis

6 After the road test, engineer can download relevant traces based on information given by Dashboard and event marker

6 Al-Powered data analysis supports engineers analyzing traces and understanding the reason of abnormality and reveal vehicle information in the event

Highlights & Advantages



Vehicle-Cloud Integration

Our in-house product, ZD Datalogger, provides professional solution for vehicle data acquisition, analysis and storage. It is featured by high-speed, mass-storage and low latency. Together with its flexible connectivity such as 4G, WiFi, Ethernet, the vehicle data keeps integral and consistent both in local and cloud storage in ZD Datacloud.

The ZD DataCloud is the perferct extension of ZD Datalogger, it integrates the in-vehicle data logging seemlessly with the cloud.



A Better Understanding of Data

ZD DataCloud system supports various types of vehicle bus traces. The raw data can be extracted to readable format for analysis and local storage.

In terms of data analysis, our big data analysis system can automatically analyze the key information in traces, such as speed, steering, braking, etc.

After identifying the event alarm, ZD DataCloud can inform Datalogger, the system can identify error alarm and extract the information about position and status of the vehicle, supports rebuilding the environment.

Highlights & Advantages



Mass Storage

In the era of the internet of Vehicles, the data generated by every car per day can reach at least Gigabyte level (GB). Based on the public cloud, ZD DataCloud supports billions of various vehicle connections and a concurrency level of one million. It provides data storage at TB and PB levels that fulfils the needs of massive data storage and



Efficient Analysis

ZD DataCloud platform employs industry leading data analysis framework. The computational power enables high speed data searching in TB scale. Users can conduct vehicle data analysis at different levels. The results can be visualized in dashboard intuitively.



The security of users Data is our highest priority. ZD DataCloud has powerful data cleaning function, which can effectively scan and filter sensitive information. Meanwhile, the platform supports the deployment of private cloud. The platform conforms to the highest enterprise security level, supporting personalized security policies and encryption.

Focus on Technology Shaping the Future

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