

NT-161B

Production Specification 产品规格

V1.3



1. product description产品描述

161B is a car data logger that can get the status of vehicle data and driving behavior data and output the recorded data to external Bluetooth device through Bluetooth. Among them, the vehicle data status includes important data such as odometer mileage, total driving hours, total fuel consumption, fuel level, vehicle speed, speed, coolant temperature, voltage, vehicle VIN code, fault code, ignition status, Based on the specific vehicle, Some of the data may not be available or will be able to obtain more data. Driving behavior data includes static or moving vehicles, rapid acceleration, rapid deceleration, sharp turns, trailers, collision trajectory and so on.

161B 是一款可以获取车辆数据状态,驾驶行为数据的车载数据记录器;通过蓝牙将记录的数据输出给外部蓝牙设备。其中车辆数据状态包括里程表公里数,总行驶小时,总耗油量,油位,车速,转速,冷却液温度,电压,车辆VIN码,故障码,点火状态等重要数据,根据具体的车型某些数据可能无法获取或能够获取更多的数据。驾驶行为数据包括车辆静止或运动,急加速,急减速,急转弯,拖吊,碰撞轨迹等。

2. Technical Specification 技术规格

Dimension 尺寸	48mm(Length)*23mm(Width)*43mm(Height) 48mm (长) x 23mm (宽) x 43mm (高)
Weight 重量	28g
Interface 接口	OBD Interface: Support A/B Type OBD 接口: 支持 A/B 型
Working voltage 工作电压	9-36VDC
Working current 工作电流	Max working current: <50mA@13.8DC,<30mA@27.6VDC Average working current (sleeping mode): <10mA@12/24VDC 最大工作电流: <50mA@13.8DC,<30mA@27.6VDC 休眠平均工作电流: <10mA@12/24VDC
accelerometer and gyroscope 加速度计和陀螺仪	±16g 和 ±2000°/s
LED 指示灯	OBD(green)/BT(blue) OBD(绿色)/BT(蓝色)
Frequency 主频	72MHz
Storage 存储	1GBit
Built-in battery 内置电池	3V / 5.5mAh rechargeable lithium button battery 3V/5.5mAh 可充电纽扣锂电池
Bluetooth 蓝牙	Bluetooth 4.1 + EDR dual-mode module, based on Cypress BCM20707; one to many connections, each connected to a stable speed <2K / S; transmission distance: 0cm ~ 10m 蓝牙 4.1+EDR 双模模组, 基于 Cypress BCM20707; 一对多连接, 每个连接的稳定速率<2K/S; 传输距离: 0cm~10m
Working temperature 工作温度	-40℃ ~ +85℃ (Humidity 80%) -40℃ ~ +85℃ (湿度 80%)

3. Product Features 产品特性

2.1 Bluetooth 4.1, Supporting Android and Apple system, supporting simultaneous connection of multiple external Bluetooth devices. 蓝牙 4.1, 支持安卓和苹果系统, 支持同时连接多个外部蓝牙设备。

2.2 Compatible with a variety of automotive diagnostic communication circuit, CAN1 (6 # 14 #), CAN2 (3 # 11 #), RS485, J1850, K-LINE. 兼容多种汽车诊断通讯电路, CAN1(6#14#), CAN2(3#11#), RS485, J1850, K-LINE。

These circuits support the development of all automotive communication protocols and currently support SAE J1939, SAE J1708, SAE J1850 (PWM + VPW), ISO9141-2, ISO14230-4, and ISO15765-4 international standards as well as Toyota, Nissan, Mazda, Honda, Mitsubishi, Subaru, Suzuki, Daihatsu, Mitsubishi trucks, Hino, Isuzu and other manufacturers part of the private agreement. At the same time CAN2 (3 # 11 #) of the circuit, support for monitoring body system data, more than one way to get the vehicle data status and body control.

Tracking tests on 1,500 cars are compatible with the differences in communication rules and processes between different models to reduce the impact on the car.

这些电路支持开发所有的汽车通讯协议，目前支持 SAE J1939,SAE J1708,SAE J1850 (PWM+VPW),ISO9141-2,ISO14230-4,ISO15765-4 国际标准协议，也支持了丰田,日产,马自达,本田,三菱,斯巴鲁,铃木,大发，三菱卡车，日野，五十铃等厂家部分私有协议。同时 CAN2(3#11#)的电路，支持监控车身系统数据，多了一个途径获得车辆数据状态以及对车身的控制。在 1500 辆汽车上进行了跟踪测试，兼容了不同车型在通讯规则和流程上的差异，减少对汽车的影响。

2.3 Integrated 3-axis gyroscope and 3-axis accelerometer. 集成 3 轴陀螺仪和 3 轴加速度计。

Can help determine the vehicle ignition and state, for J1939 bus communication car, the product does not need to communicate with the car but start monitoring the vehicle data status , this will not effect the can bus communication for above vehicle.

The analysis of driving behavior data can also be used to analyze collision trajectories between the occurrence and the end of a vehicle collision.

可协助判断车辆点火及状态，对于 J1939 总线通讯的汽车，本产品不需要和汽车通讯即可以启动监听车辆数据状态以及所有的功能，对这类车辆的总线 100%不影响。

用于驾驶行为数据的分析，也可以用于分析车辆碰撞发生和结束之间的碰撞轨迹。

2.4 Mass storage 1GBit. 大容量存储 1GBit。

conducive to record a variety of car data information.

有利于更长的时间记录汽车各种数据信息。

2.5 Hardware EMC Compliance (CISPR-25, ISO-7637, ISO-10605). 硬件 EMC 符合标准 (CISPR-25,ISO-7637,ISO-10605)。

The following two Industry customers personalized needs, please contact our company.

以下两点行业客户个性化需求，请咨询我司。

➤ Software support secondary development. 软件支持二次开发。

Provide the existing software development environment, the basic source code, development guidance, customers can develop software according to their needs.

提供现有的软件开发环境，基础源代码，开发指导，客户可以跟据自己的需求开发软件。

➤ Hardware configuration, appearance structure, software features are supported by custom. 硬件的配置，外观结构，软件功能均支持定制。

According to the specific needs of customers, different configurations of custom hardware, different appearances, different software features.

可以根据客户的具体需求，定制不同配置的硬件，不同的外观，不同的软件功能。