

APP setting plan, simple and portable!

Main Power Traffic Controller

4G,GPS, GPRS, Ethernet Communication



NobTra second-generation main power intelligent traffic light controller is suitable for many kinds of the intersection, such as four ways, three ways, and two ways intersection. The controller with 16 signal group output. GPS time synchronization, traffic actual, pedestrian push button, green wave are our intelligent traffic light controller features.

NobTra main power controller was a developed, intelligent traffic controller. The controller adopts an embedded system to centrally control traffic lights, which makes the operation more stable. The whole machine adopts a modular design, which is convenient for maintenance and repair. Using communication methods such as Ethernet, optical fiber and 4G, the entire system can be remotely controlled

Easy to set the parameters and simple wiring methods classified. NobTra second-generation main power control system solves the traffic crowded problem. Base on the actual situation of the intersection. The Maximum set 240 menus with 30 phases and also can set the different time period traffic light plan. Stagger the rush hour. The traffic crowded problem can be solved well. in real-time at any place covered by the Internet. The friendly human-computer interaction interface allows you to more conveniently configure and monitor the status of each intersection.



WIFI Connections



GPRS



GPS



4G



LAN



Computer setting plan



APP setting plan



Pedestrian Touch
Button function



Traffic Camera
detector function



Loop detector
function



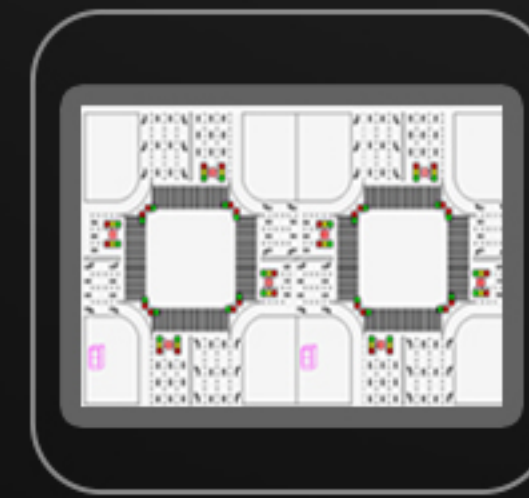
Control Center



Fault detection



Green wave function



Multiple intersection
Center Control



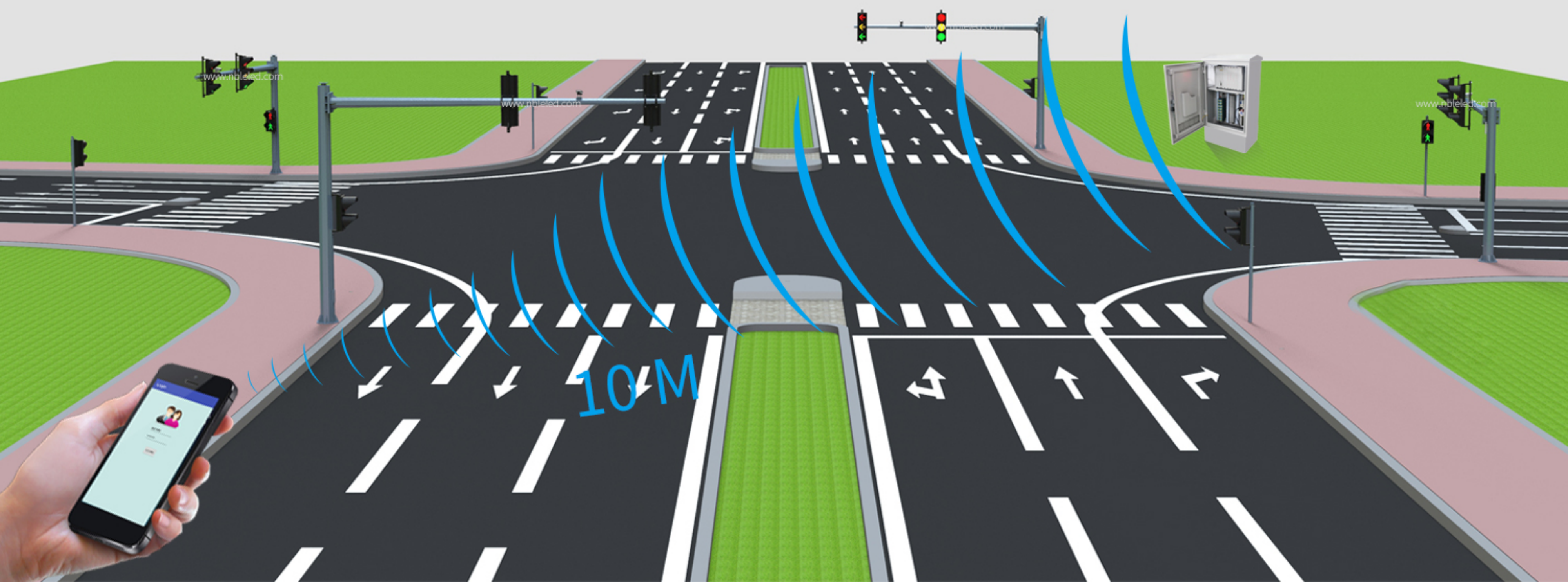
5 years warranty

24 advantages to meet your different needs

Long distance signal stability

10 meters distance arbitrarily set

Built-in wireless module, the farthest wireless transmission
distance is 10 meters.



APP set intersection plan

Say goodbye to push-button controls

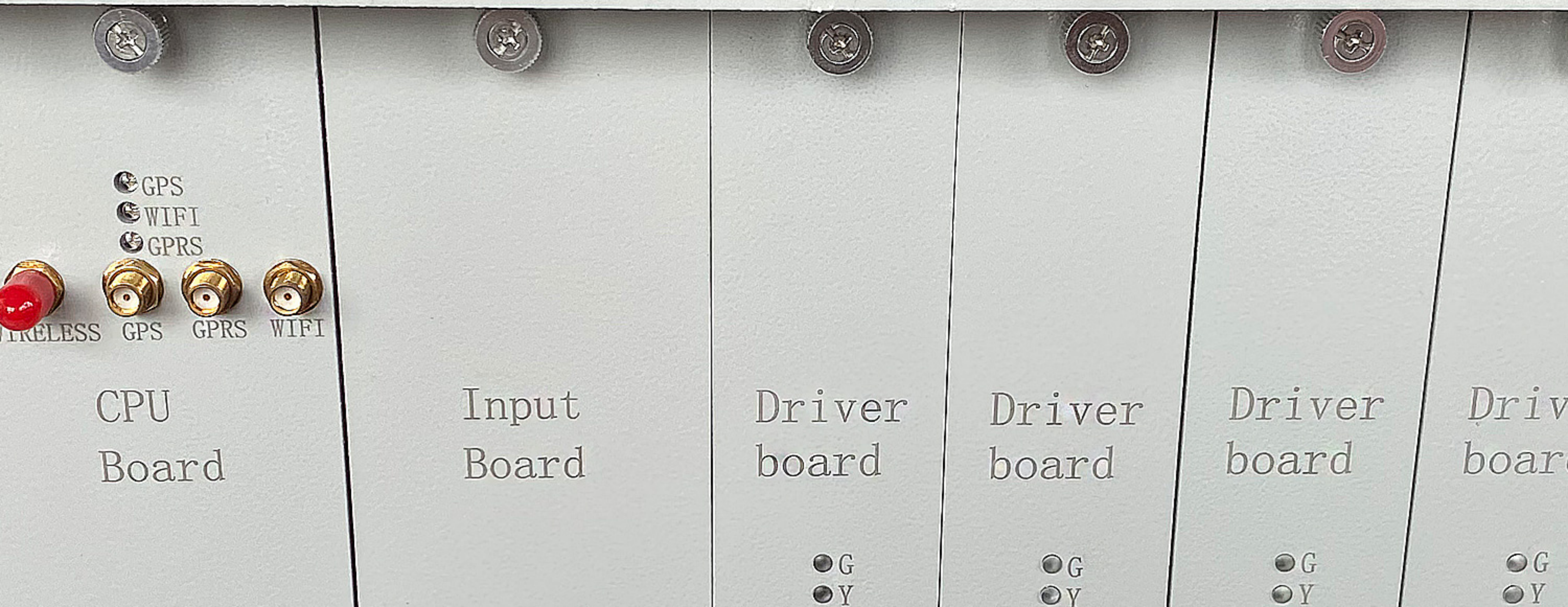
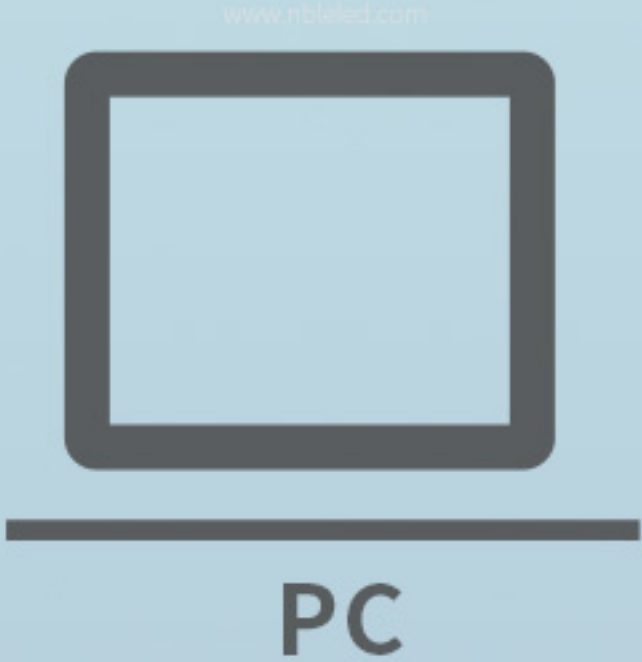
Control by Mobile APP, it's convenient for the program and debugging on the site.



Compatible with multiple devices

Support mobile phones, tablets, computers

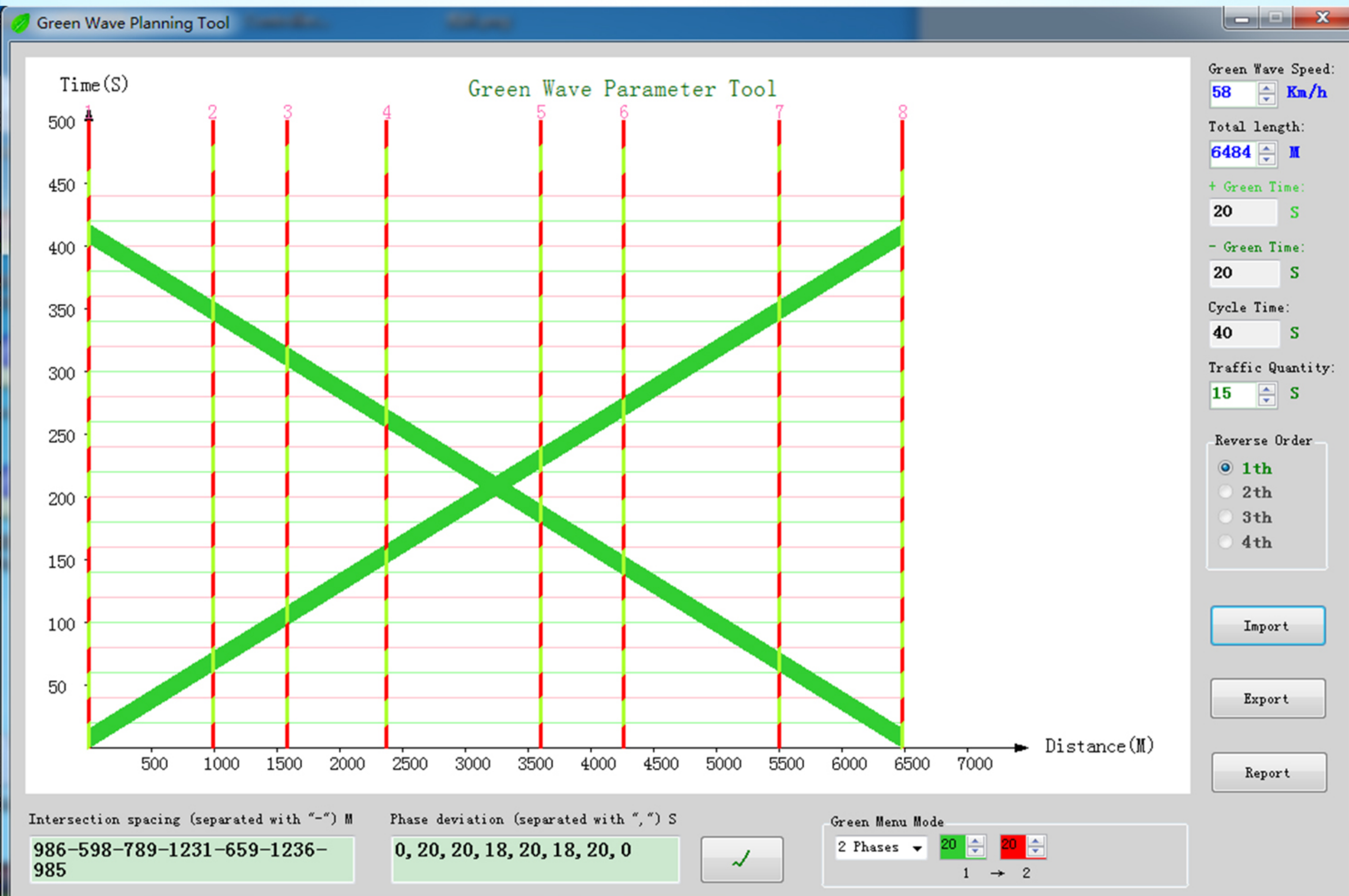
Good compatibility. Setting parameter by mobile phone,a computer, a tablet,or a notebook,you can easily connect is.



Humanized management

Green wave function, green light all the way

GPS for real-time synchronous, make green wave function come true. Achieve green lights all the way at all intersections to facilitate inspection by national leaders.



Powerful junction preparation program

Diversified Signal plan to meet different needs

Signal plan: Allowing 240 solution,30 period time, 240 menus with 30 phases. Allowing week plan, special day plan, All red time, red extension, etc.

240
solution

30
period
time

240
menus

60
phases



Humanized management

Special date special plan

The controller can be set up with a week plan setting (Monday to Sunday) and Holiday plan setting.

5G 4G HD 17:34 ... 0.00 KB/s 5G 90

≡

Holiday Plan Setting

⋮

<

Today

>

Sun Mon Tue Wed Thr Fri Sat

1

2 3 4 5 6 7 8

9 10 11 12 13 14 15

16 17 18 19 20 21 22

23 24 25 26 27 28 29

30 31

Date:

2020-08-19

Plan:

1

▼

QUERY

SAVE

▶ Main

⬇ Traffic

🔍 Record

❓ Controller

👤 Others

5G 4G HD 17:19 ... 0.00 KB/s 5G 90

≡

Week Plan Setting

⋮

◇ Monday --->

1

▼

◇ Tuesday --->

1

▼

◇ Wednesday --->

1

▼

◇ Thursday --->

1

▼

◇ Friday --->

1

▼

◇ Saturday --->

1

▼

◇ Sunday --->

1

▼

QUERY

SAVE

▶ Main

⬇ Traffic

🔍 Record

❓ Controller

👤 Others

Portable design

Easy to move

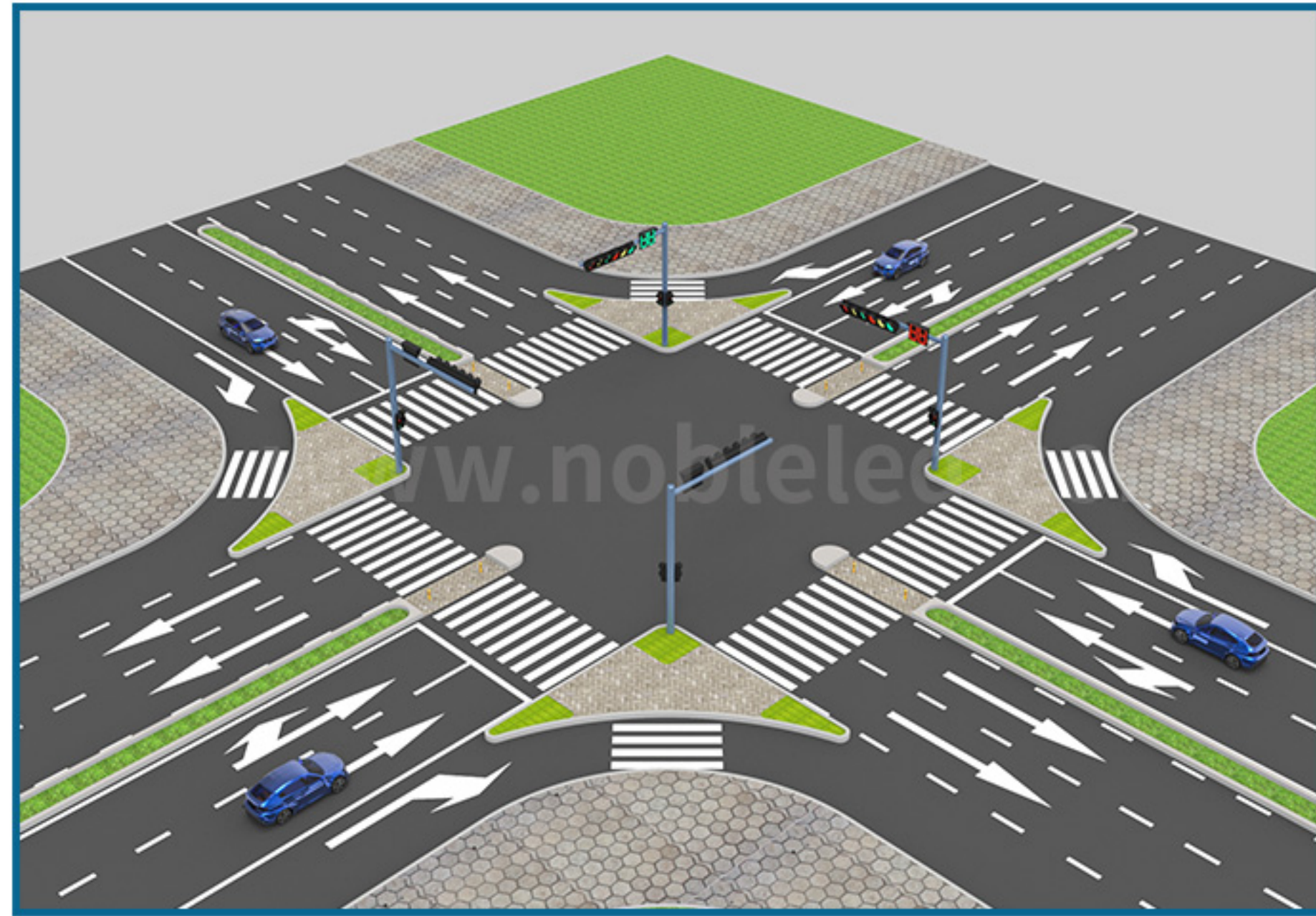
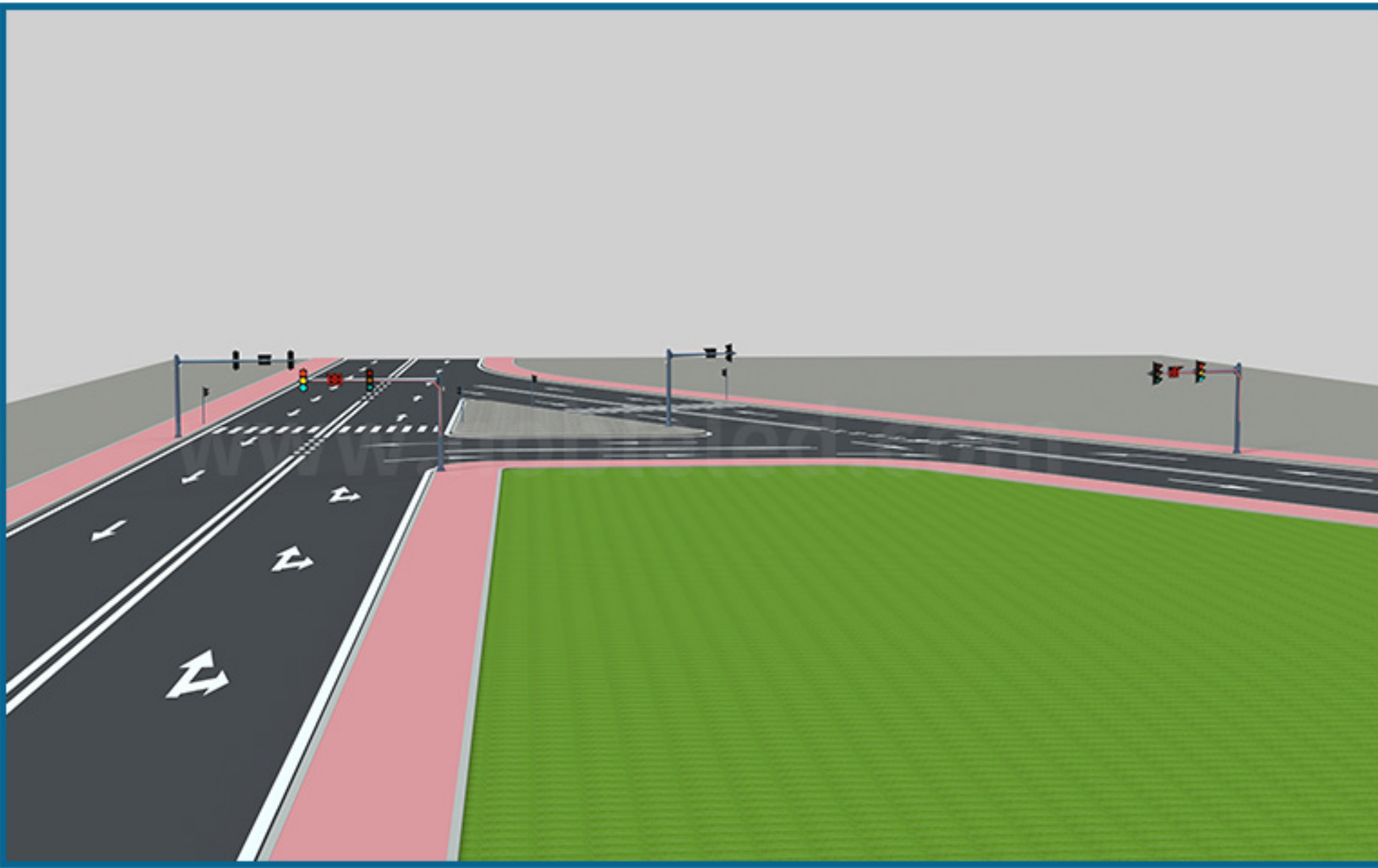
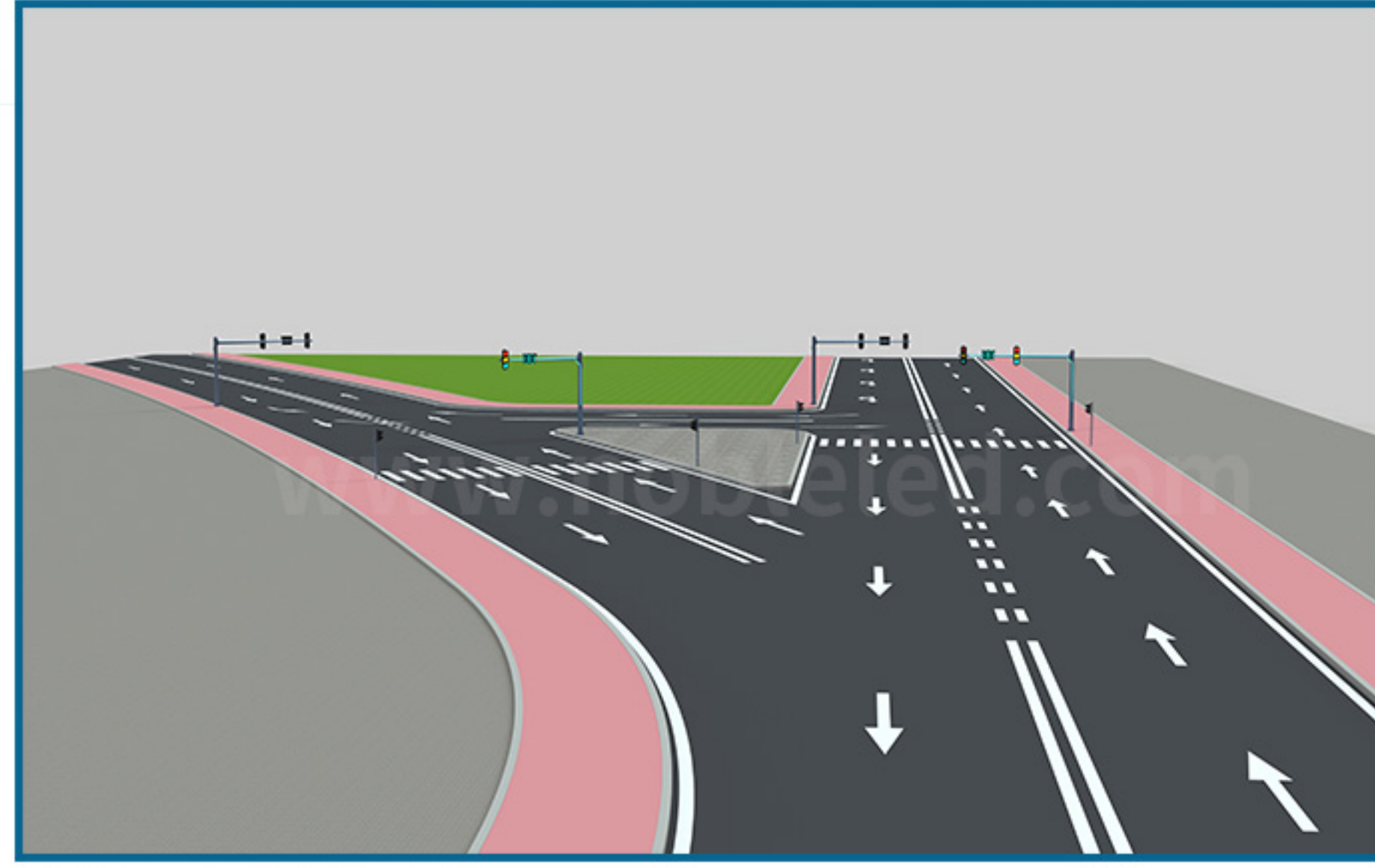
With portable design. Easy to carry and install.



up to 48 drive controls

Suitable for all kinds of common intersections

This system is suitable for all kinds of intersections, such as 2-way intersection, T-junction, 4-way intersection.



Advanced communication

Support multiple communication methods

Support multiple communication methods. Ethernet, 4G insert card, WIFI, GPRS communication.



WIFI communication



GPRS communication



Ethernet communication

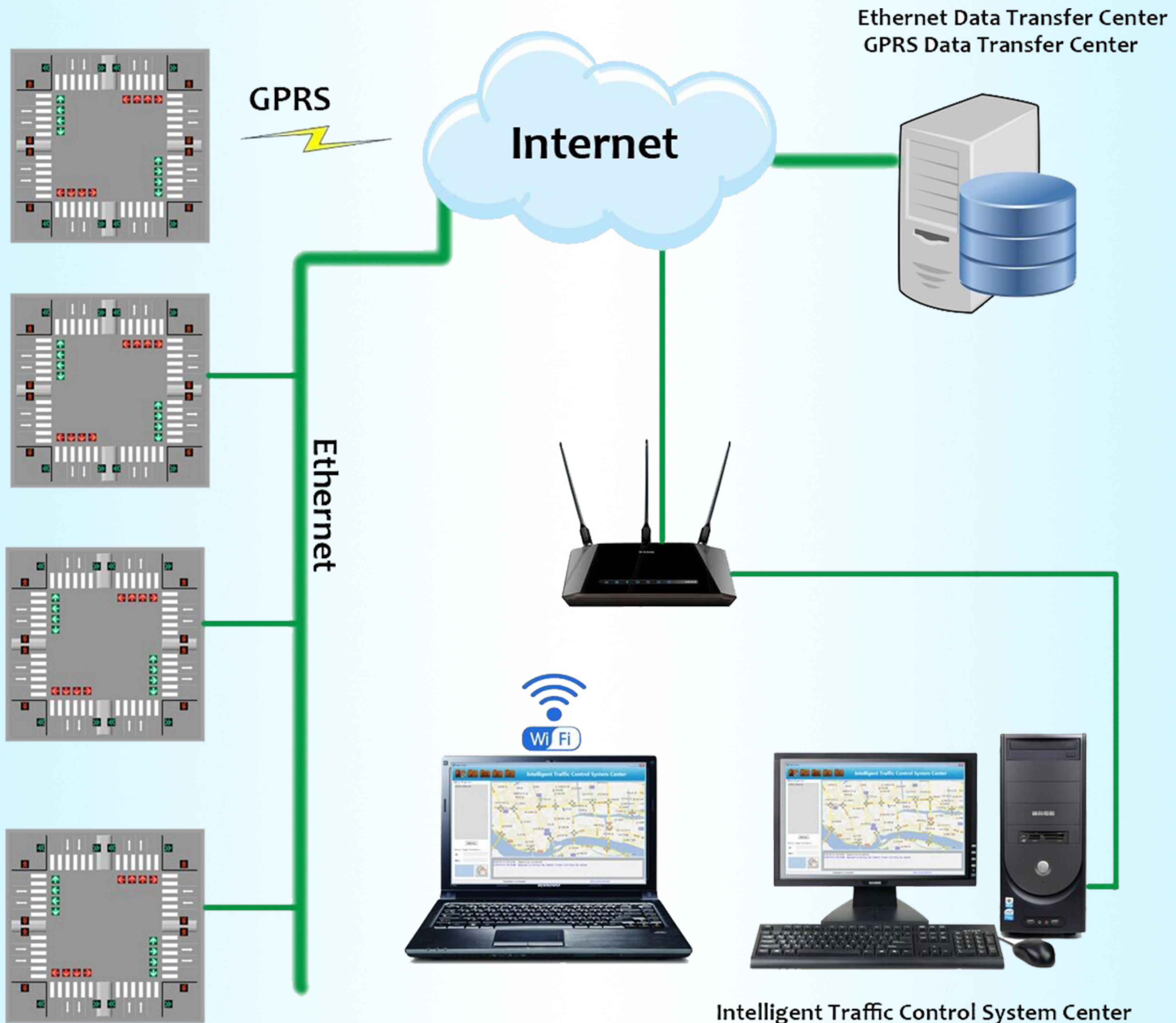


4G communication



Centralized control management

Support single-computer communication and centralized control communication mode of the upper computer. Centralized control of intersections in the city can be achieved through centralized control.



Intelligent management

Control center monitoring function. The traffic control system can realize remote control center monitoring, online PC terminal for traffic flow control and manual intervention



Small body, big energy

NobTra main power controllers can work with the traffic light, video camera detector, push-button, and other devices.



loop detector



push button



Traffic Camera



Traffic Light



Another device

Intelligent management

Support various special menus. Such as turn off the display, yellow flashing on all sides, all red on all sides

Single intersection Configuration

Hardware SettingSystem SettingTraffic SettingFault Detection SettingFault RecordHelp

2020-07-29 15:59:14

Phase modeIntersection Mode

ES2

R Y G

EL

R Y G

ES1

R Y G

ER

R Y G

EP1

R G

EP2

R G

East

SS2

R Y G

SL

R Y G

SS1

R Y G

SR

R Y G

SP1

R G

SP2

R G

South

WS2

R Y G

WL

R Y G

WS1

R Y G

WR

R Y G

WP1

R G

WP2

R G

West

NS2

R Y G

NL

R Y G

NS1

R Y G

NR

R Y G

NP1

R G

NP2

R G

North

Display Status

Plan No. : 1

Menu No. : 0

Period: 0

Phase No. : 0

Current ID: 00006 >

Mode: 3-3

Green Time: 000

Manual Control

East Go

West Go

South Go

North Go

East Cancel

West Cancel

South Cancel

North Cancel

--

Yellow Flash

--

Custom Control

--

Yellow Cancel

--

Custom Clear

System message

Single Intersection Config

Intelligent management

Google, Bing, etc map no need to update the map support online map and offline map data.

Main Form

Intelligent Traffic Management Client

Online Intersection List

00006--Ethernet

Refresh

Current Target Information

ID:

Name:

2020-07-27 11:44:51 Successfully connect to the Ethernet Data Transfer Center

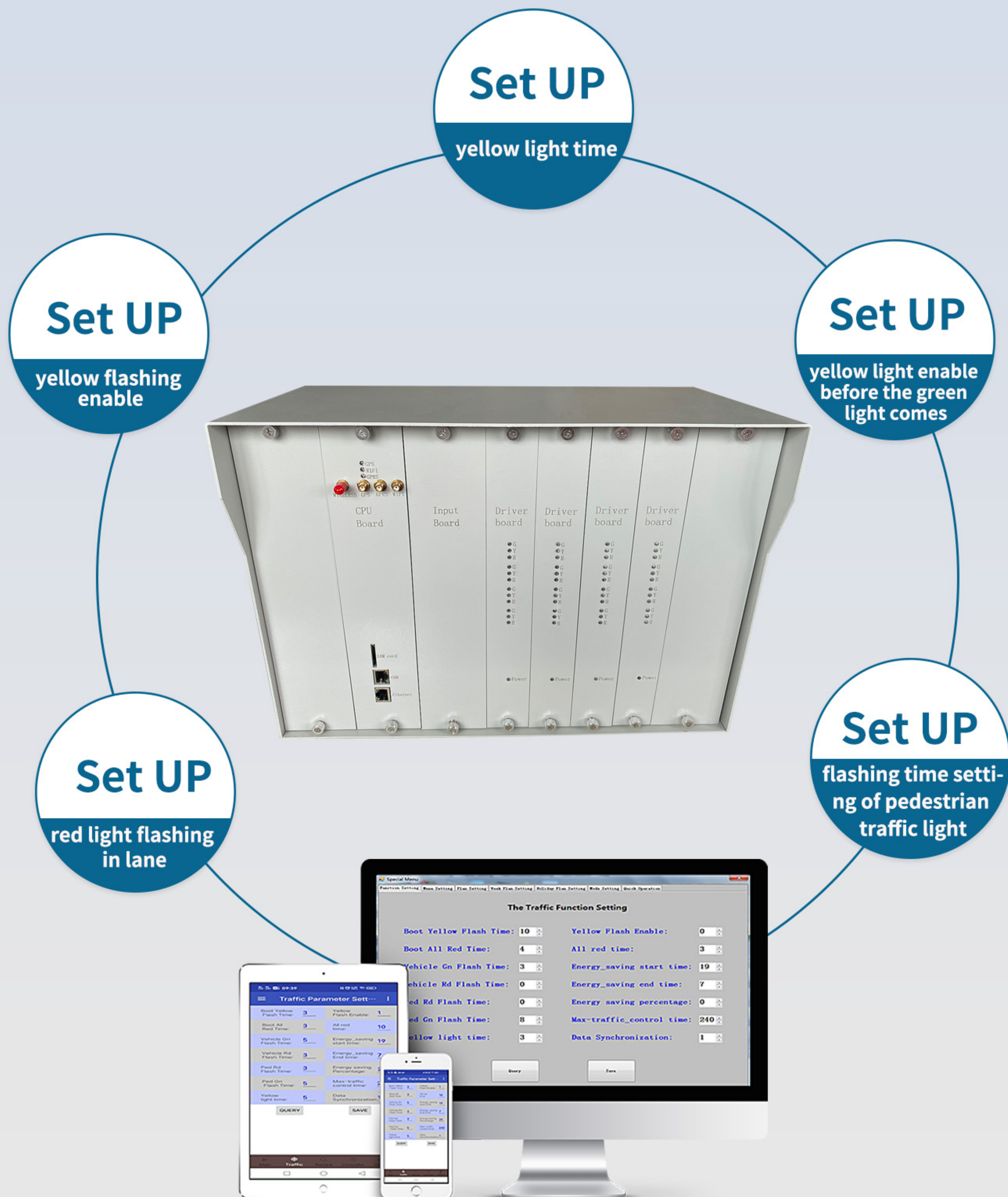
Finished!

Database is connected!

2020-07-29 15:56:51

Meet the needs of different countries

The status of the light can be set globally. For example, you can set the yellow light time, yellow flashing enable, yellow light enable before the green light comes, red light flashing in lane, flashing time setting of pedestrian traffic light, etc., so as to meet the different setting standards and habits of various countries.



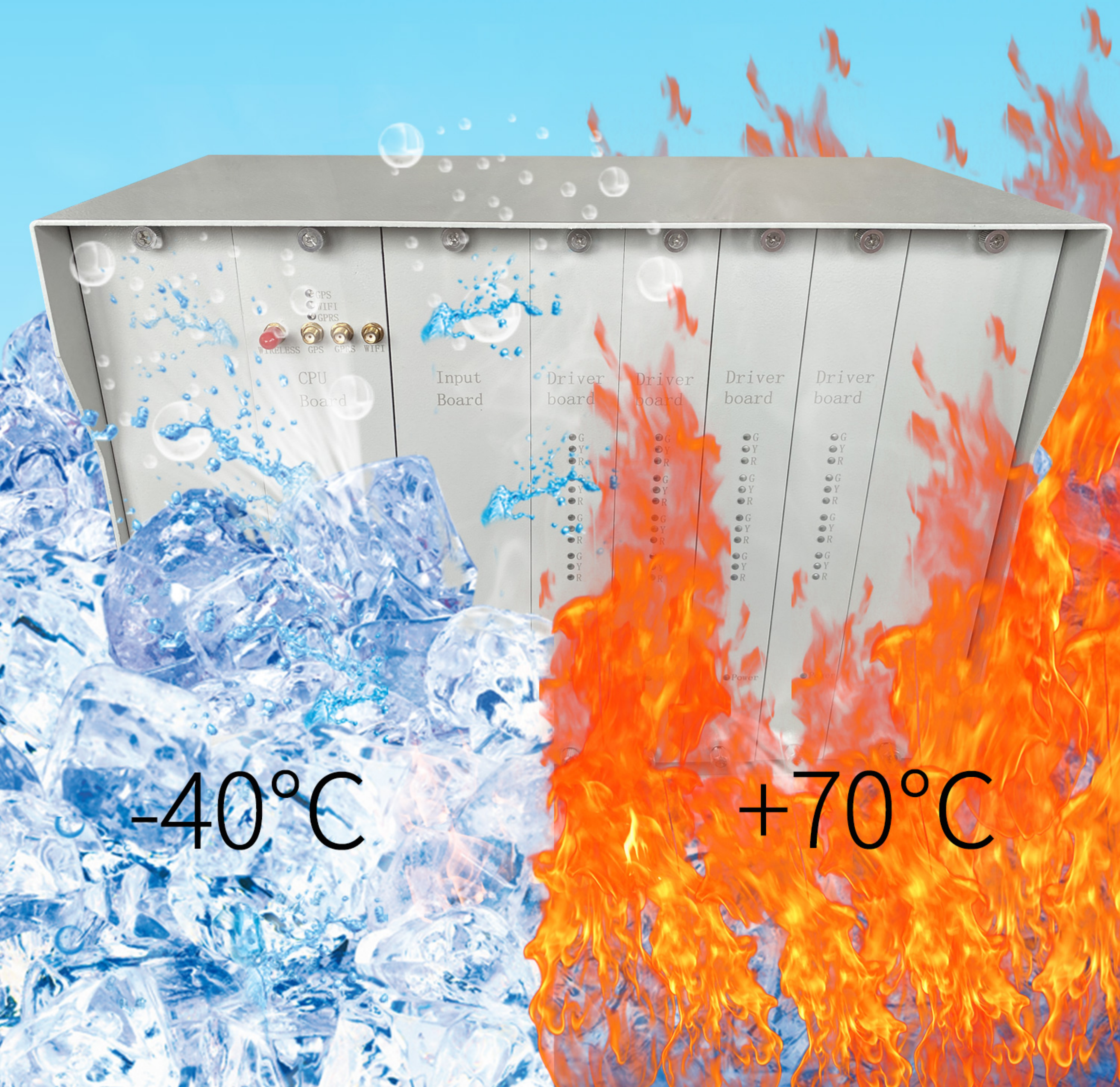
Heat protection design

With good heat dissipation and adapt to various environments. Cooling groove design is adopted on both sides and back. Greatly improve the performance of the main power traffic controller.



Adapt to all kinds of bad weather

With High and low-temperature resistance. The second-generation main power controller working temperature range was -40°C - 70°C



Double Protection is Safer

Broad line of outdoor cabinets and enclosures; Designed for harsh outdoor environments, Wind-driven rain resistant, Temperature hardened; Protection against corrosion. Protect the controller working well and it also can prevent the control machine from being stolen.



Multiple security guarantees

Different protection functions including electric leakage protection, lightning protection, output short-circuit protection, high current shock protection.



Electric
leakage
protection

Lightning
protection

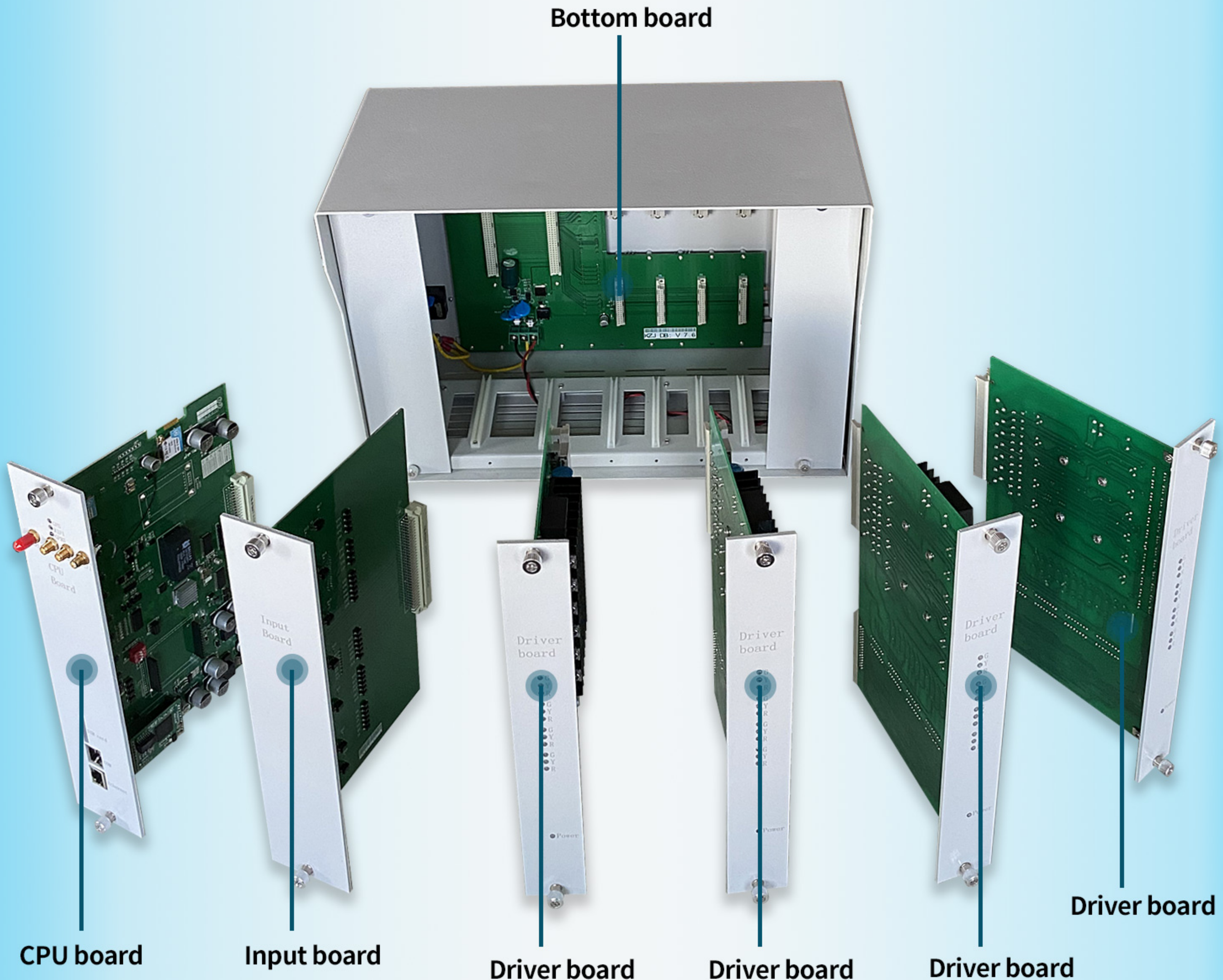
Output
short-circuit
protection

High
current
shock
protection

Modular design

Easy to maintain

The whole machine adopts a modular design, which is convenient for maintenance and repair.



Quality assurance

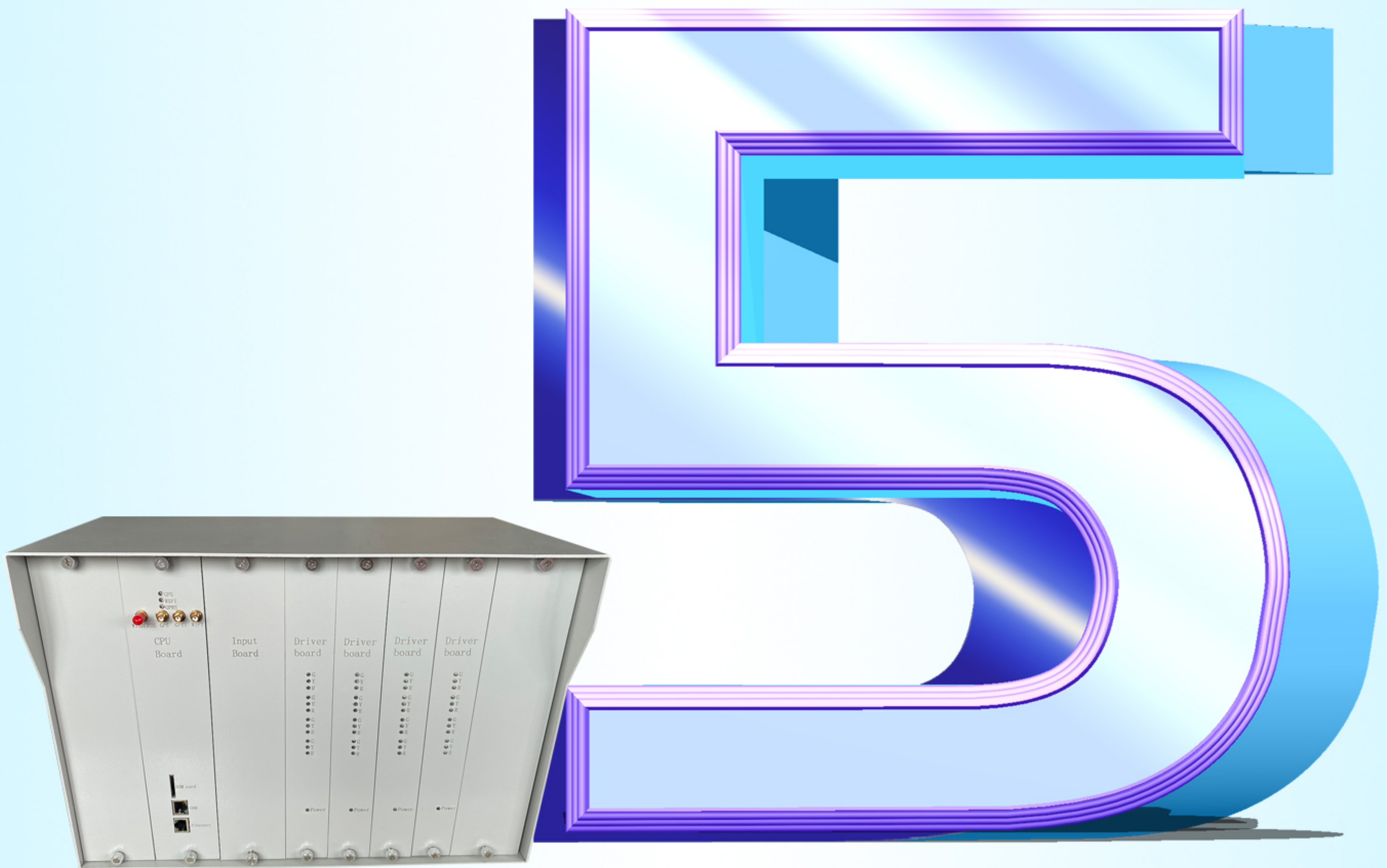
It is a formal production enterprise and has passed CE, ISO9001: 2015, EN50556, EN12675 and other international standard certificates.



5 years warranty

The NobTra brand is trust worthy

We care about user experience and pay more attention to after-sales quality. NobTra main power traffic controller is dedicated to bringing peace of mind to more customers.



Free parts fee

All parts of the main power traffic controller are free of charge within 5 years.

Complete machine repair

The product is guaranteed for the whole machine within 5 years, and there is no charge for repairs, and the warranty is more assured.

Designable intersection plan

Based on your actual requirement. We can offer different main power traffic light solution for you. Professional designers design the renderings of intersections based on actual intersections.



We can provide remote service

We can provide remote service. If you have some confusion or met the problem of the main power traffic controller system.



General Characteristic:

1. Two methods of programming the controller, Phone App and traffic management software.
2. Multiple working mode: cycle mode(1-1), green wave mode(1-2), pedestrian push button mode (2-1,2-2), Traffic vehicle actual mode(3-3).
3. Signal plan: 240 solutions, 30 stages and 240 menu with 30 phases, week plan, special day plan.
4. Hurry call.
5. Detect function: Lamp failure detect, low voltage detect, green conflict detect. Loop failure detect.
6. Traffic control function, make control the whole direction lamp, also can set each lamp status.
7. Support forced flash function, Turn on/off lamp one by one function.
8. Special menu: Loop detector failure menu(240), East, West amber flashing & South North red flashing menu(251), East, West red flashing & South North amber flashing menu(252), All red flashing menu(253), Junction off menu(254), Amber flashing menu(255).
9. Support total fault detection enable DIP setup functions input(main power controller)

Software Feature:

User-friendly man-interface is easy to use and set parameter for the inter section. Communications can be established over Ethernet, fiber or GPRS.

- 1.Support Bing Map, Open Street Map、 Open Cycle Map、 Google Map、 Nokia O vi Map etc international map, maps can be updates.
- 2.Support online map and offline map data.
- 3.Embedded central control system, work more stable and reliable.
- 4.The controller system adopts modular design for easy maintenance
- 5.Support dual green wave function.
- 6.Support LAN and WAN internet.
7. In the running state, the current step running time can be modified immediately.
- 8.Software parameter setting all equip with the Foolproof protection mechanism.
- 9.Plan setting equip with the green wave conflict detect mechanism.
- 10.Fault diagnose can be record, analysis and monitor, it is also belong to user-defined items.
- 11.Hardware failure detection, when a failure is detected, downgrade to a yellow flashing state and cut off the output of the red and green lights.
- 12.The appearance of the controller adopts a window-opening convection design, and the heat is more easily dissipated into the air, ensuring the stable operation of the system
- 13.Compatible with Windows x86 and Windows x64 operating systems.
- 14.Software install easily.
- 15.The output part adopts zero-crossing detection technology, and the state change is switched under
the state of AC zero-crossing, which makes the drive safer and more reliable
- 16.With the installation test function, the installation correctness of each lamp can be tested and confirmed
when the intersection signal lamp is installed.
- 17.Can use the system default menu No. 30
- 18.The edited menu/scheme can be copied and transferred to other intersections, which is more convenient for debugging at intersections.
- 19.Support multi-intersection coordinated green wave band function to improve vehicle traffic efficiency.
- 20.Mapping output can be set. When a certain phase is faulty, the idle phase can be used to
- 21.temporarily replace the faulty phase to solve the traffic congestion at the intersection urgently

Special function of the controller:

1. Automatic degrading function: automatically judge when the load is abnormal, automatically run the downgrade menu or close the output until the fault is eliminated.
2. Time-divided and variable-cycle control: Under the independent operation state of the signal machine, according to the multi-period control scheme in the signal machine, the control is performed according to different dates, time periods, and variable periods.
3. Multi-MCU, modular design, compact and reasonable structure, easy to maintain, and expand functionality.
4. The real-time clock automatically works to avoid the internal time being incorrect due to power failure or other reasons, and the control mechanism cannot operate normally.
5. According to different intersections, the timing mode, fuzzy sensing, and real-time sensing mode can be operated.
6. Mapping function: When one driver module is bad, the redundant interface output of another driver module can be used to control the load of the bad module.
7. Fault output menu: After the local sense of fault, the control machine runs the fault menu.
8. Can be set by a fixed yellow flash, shut down, and boot.

Product Parameter

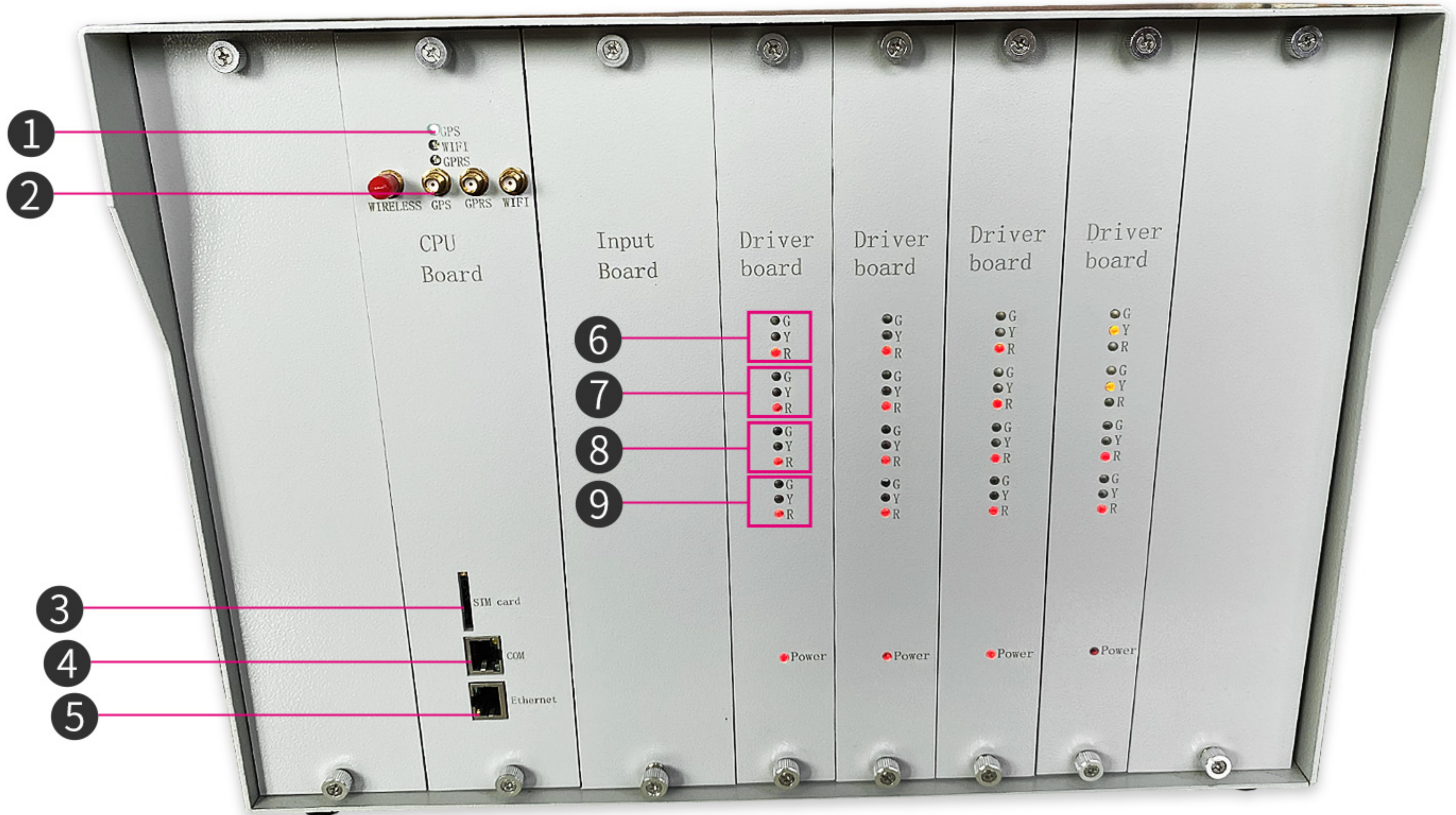
traffic controller



Type	NBTSC-200
Working voltage	120VAC/230VAC
Standby power	<10W
Signal light output	16 signal group, 16A each
Pedestrian button signal input	8 sensor input
Ground sense signal input	8 sensor input
Time error	annual error <2.5 minutes (under the condition of $25\pm1^{\circ}\text{C}$)
Power-down data storage	10 years
Working temperature	-40-70°C

Panel introduction

traffic controller front panel



1、 Signal indicator light

2、 Antenna interface

3、 4G/GPRS SIM card slot

4、 COM Interface(485)

5、 RJ45 Network interface

6、 indicator light R:S1-R Y:S1-Y G:S1-G

7、 indicator light R:L-R Y:L-Y G:L-G

8、 indicator light R:R-R/P2-R Y:R-Y

G:R-G/P2-G

9、 indicator light R:P1-R Y:P1-R G:P1-G

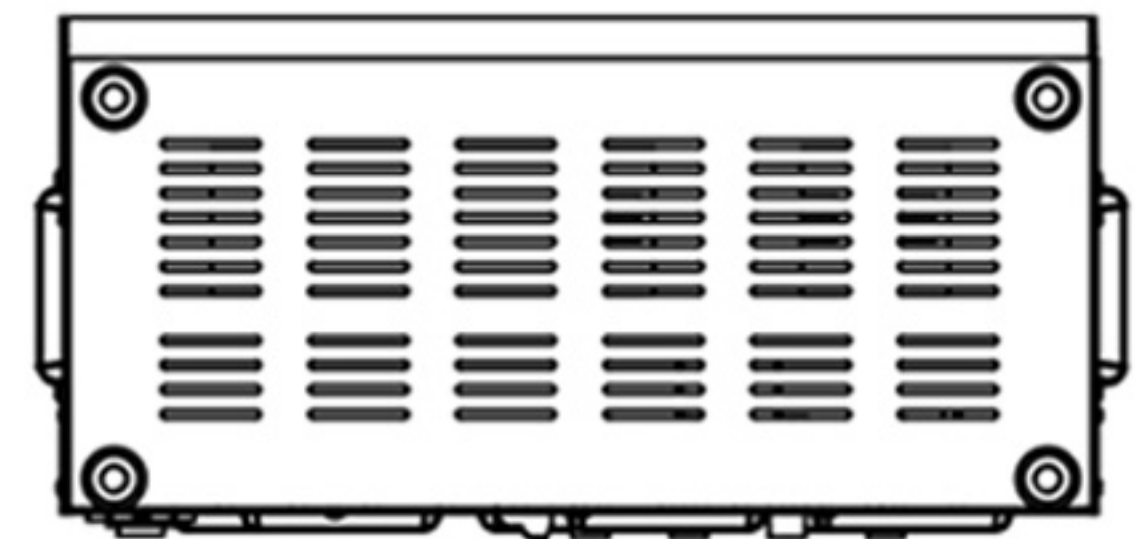
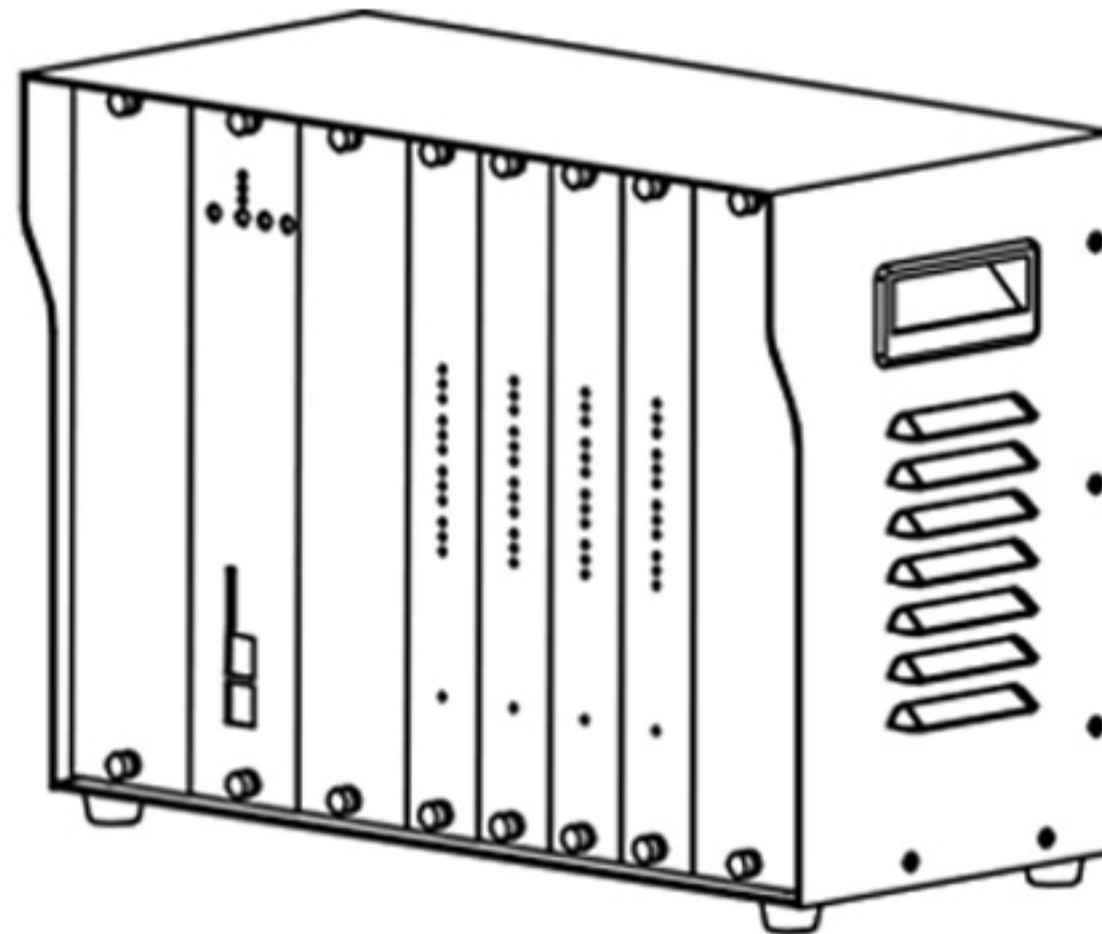
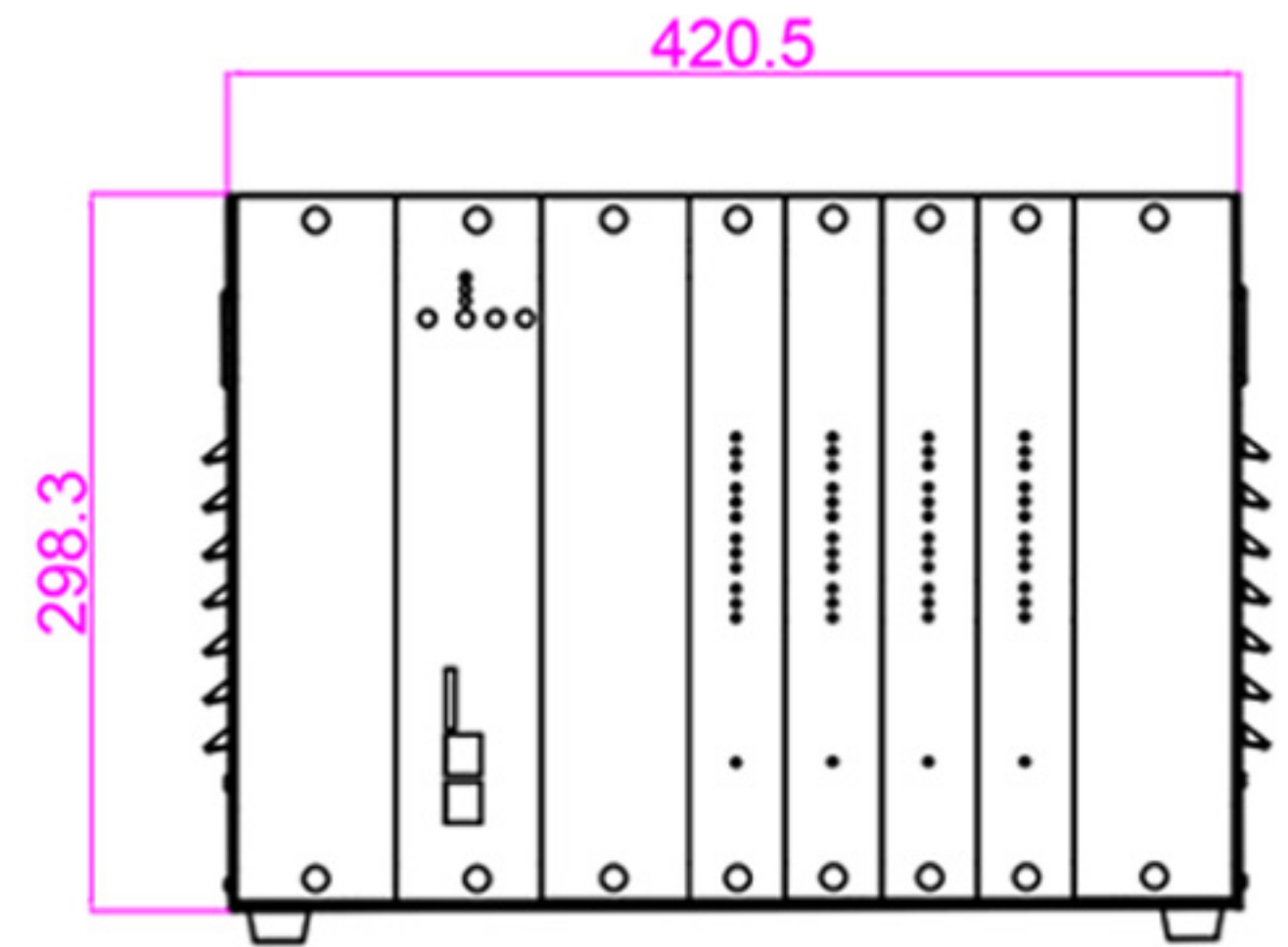
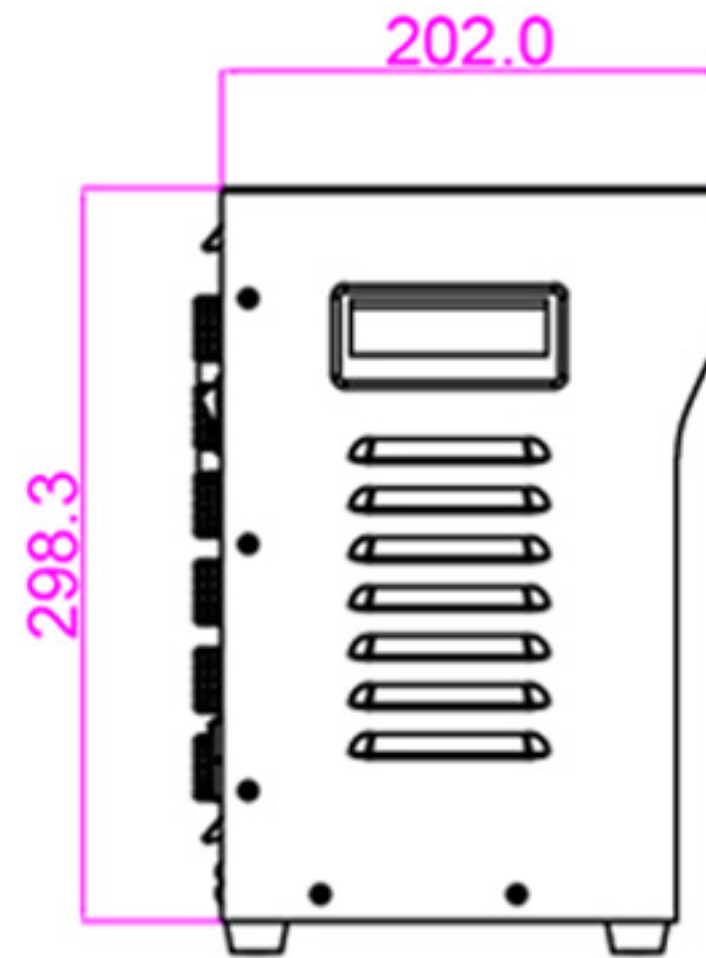
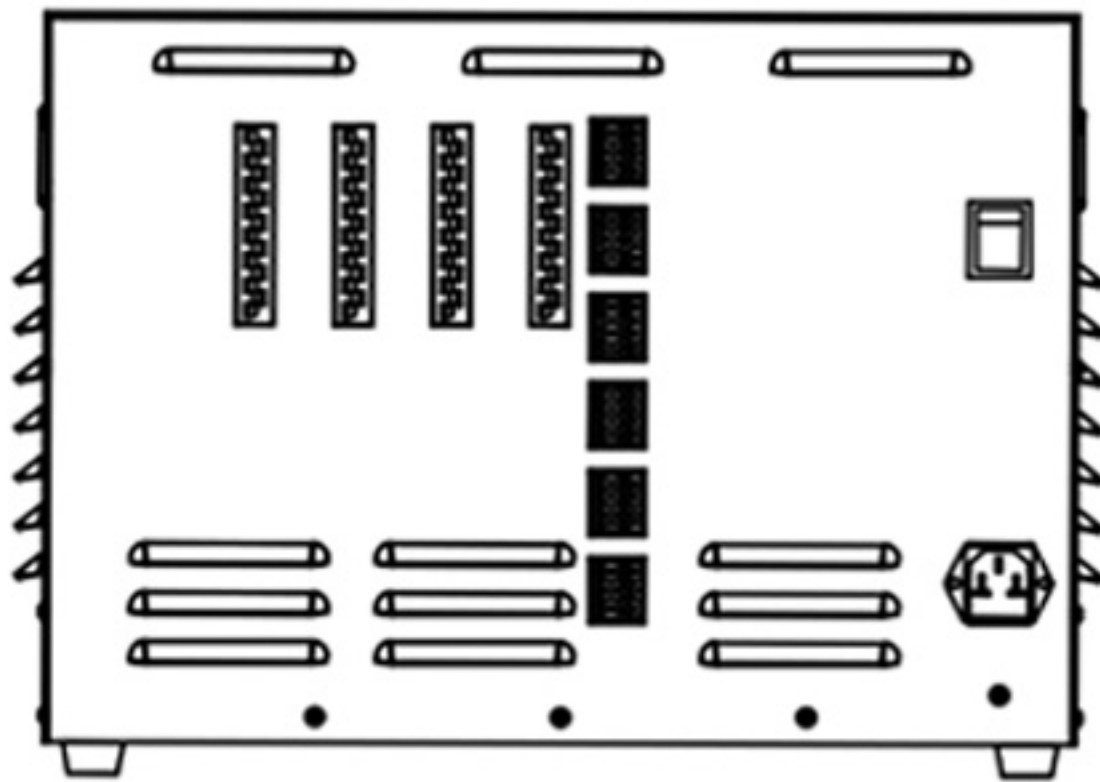
traffic controller back panel



S1-R	S2-R	straight 1 red light	Straight 2 red light
S1-Y	S2-Y	straight 1 yellow light	straight 2 yellow light
S1-G	S2-G	straight 1 green light	straight 2 green light
COM	COM	straight 1 common	Straight 2 common
L-R	R-R	Left turning red light	Right turning red light
L-Y	R-Y	Left tuming yellow light	Right turning yellow light
L-G	R-G	Left turning green light	Right turning green light
COM	COM	Left tuming and Pedestrian 1 common①	Right turning and Pedestrian 2 common②
P1-R	P2-R	Pedestrian 1 redlight	Pedestrian 2 red light
P1-G	P2-G	Pedestrian 1 greenlight	Pedestrian 2 green light

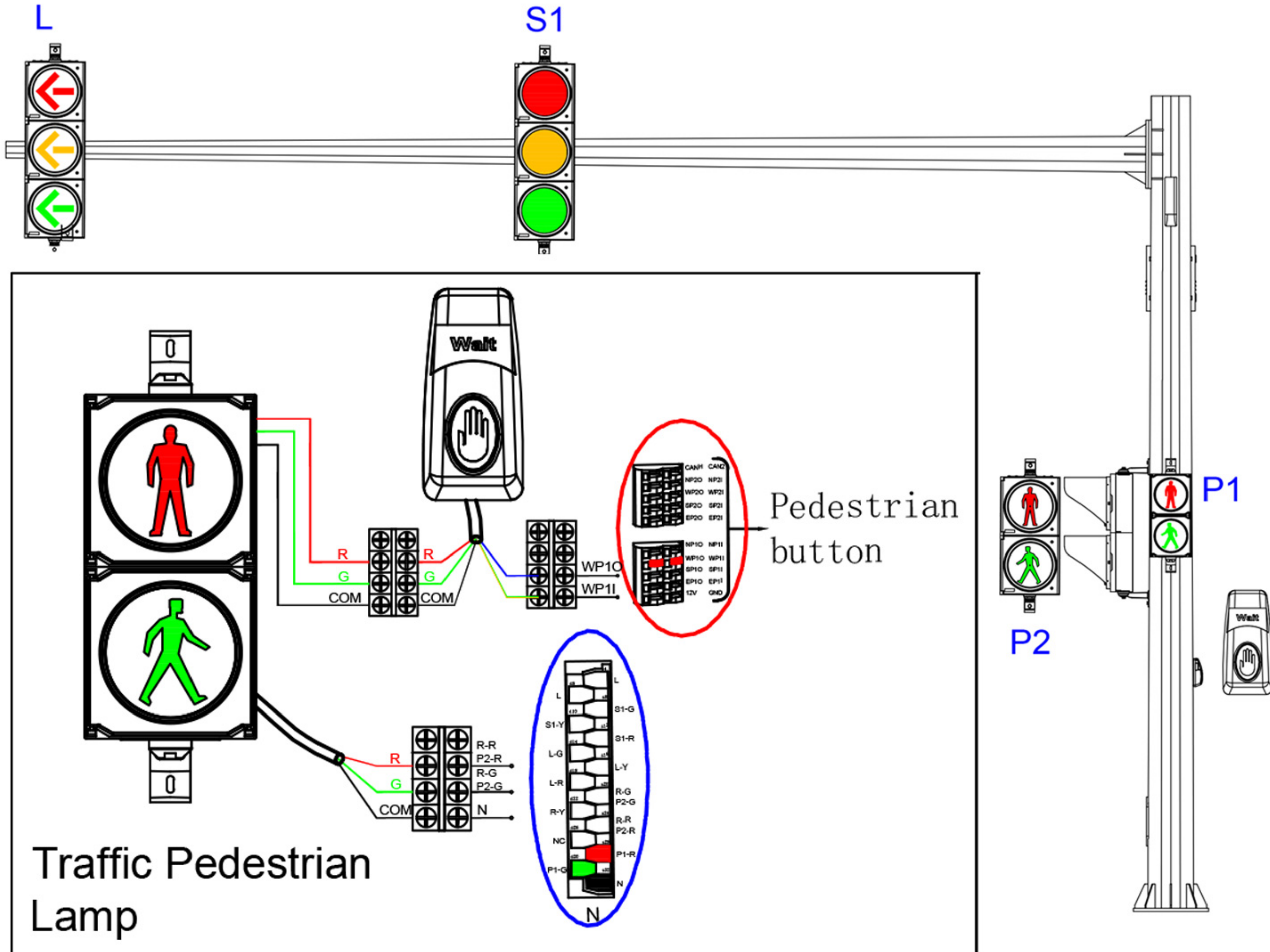
Product Size

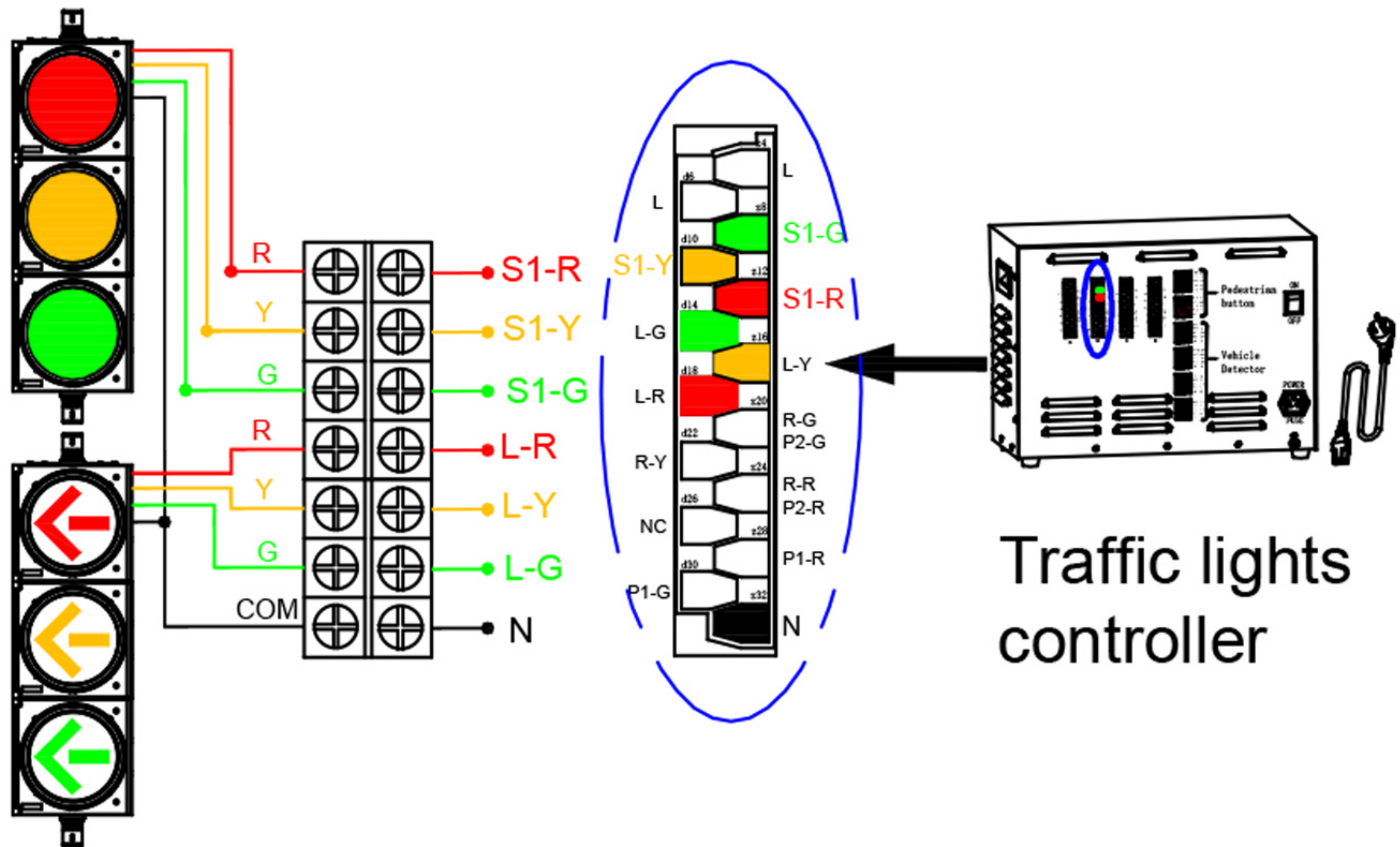
traffic controller

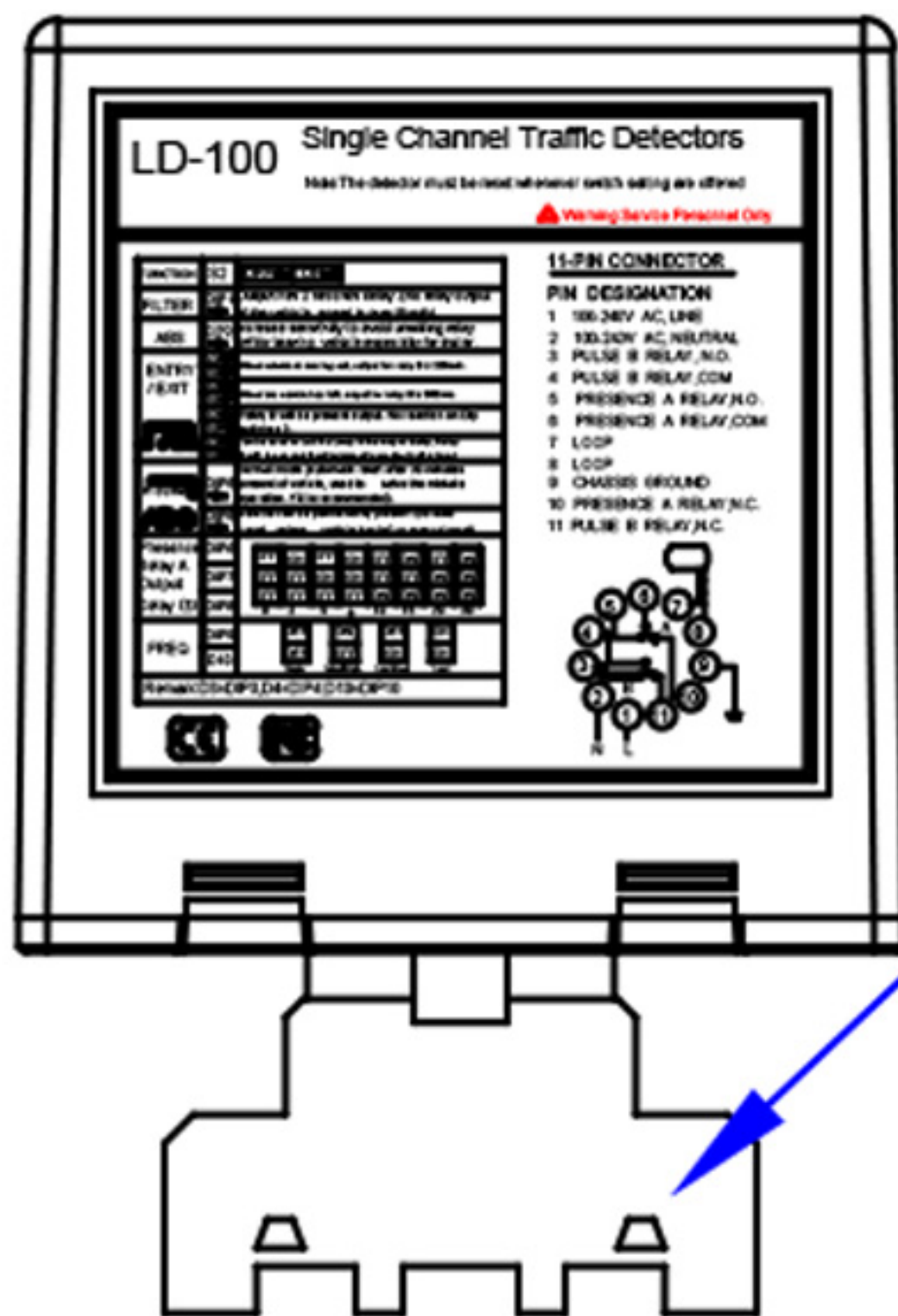


Wiring diagram

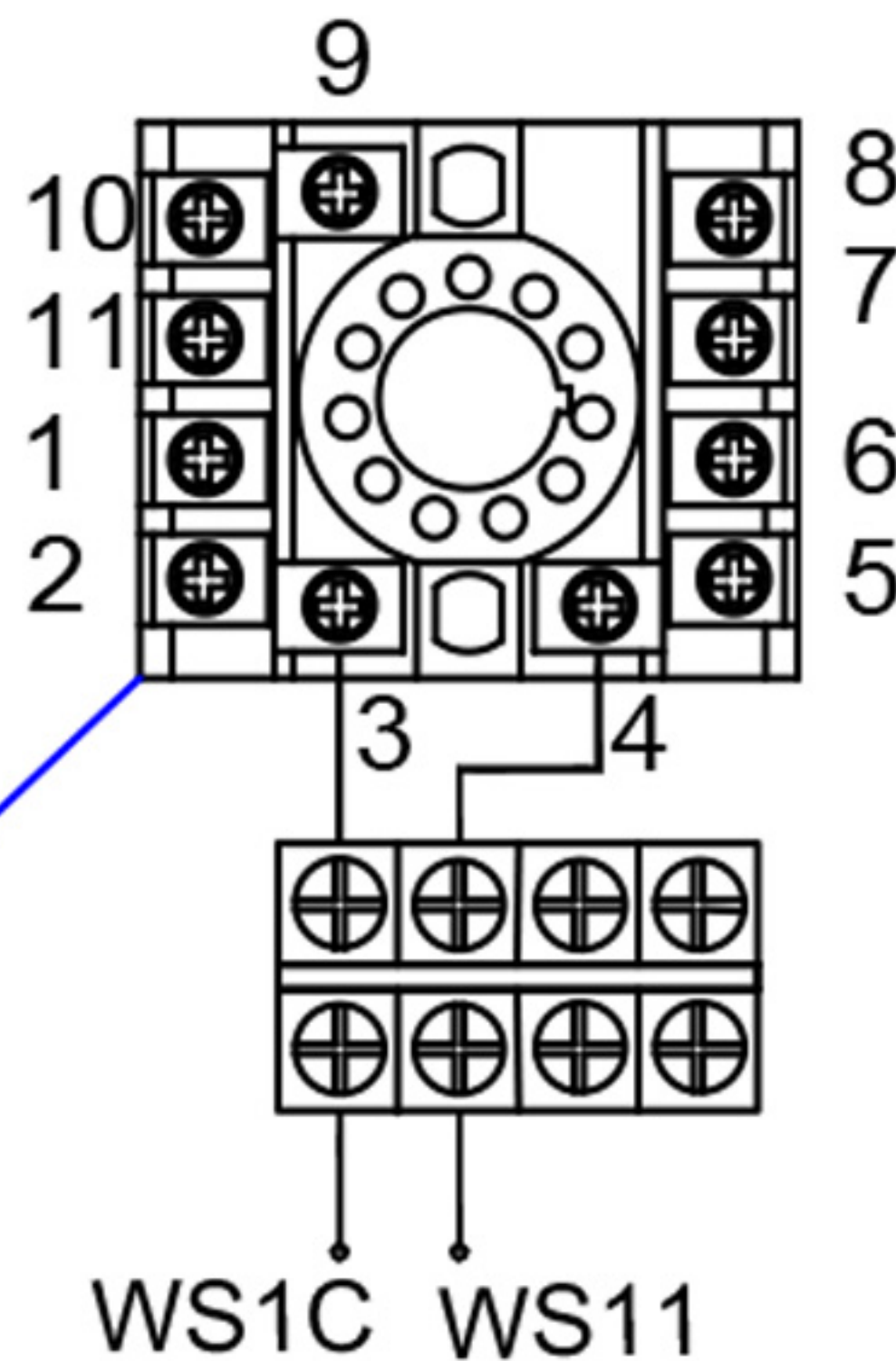
traffic controller



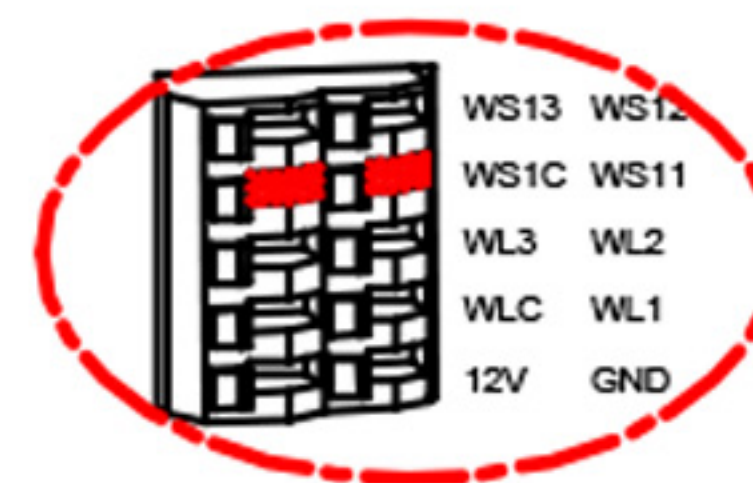




Vehicle detector



Vehicle
Detector



Packing List

traffic controller



1、 Main power traffic controller 1pc

2、 Power Cable 1pc

3、 GPS antenna 1pc

4、 Output line 4pc

5、 Cable 1pc

6、 WIFI antenna 1pc

7、 4G antenna 1pc

8、 User Manual 2PCS

9、 DVD disc 1pc

Product Parameter

Cabinets



Model

NBCB-N (Controller cabinet)

Color

Grayish white(Can choice)

Mounting

Bracket fixing

Dimensions

120*65*45CM

Material

Cold-rolled sheet

Application

traffic controller

