PAK GERMAN ENGINEERS

—— UP to 16 Slaves,No wiring, APP design intersection plan——

MULTI SLAVE

Solar Wireless Traffic Controller

20 major functions
Meet your different needs

WIFI Connections	GPRS	GPS	4G communication	LAN
Computer setting plan	APP setting plan	PedestrianTouch Button function	Traffic Camera detector function	Loop detector function
Up to 16 slaves can be equipped	Control Center	No wiring, no road digging	Fault detection	Solar powered
Porous heat dissipa-tion design	Green wave function	Multiple intersection Center Control	Factory direct sales	5 years warranty

Are you still worried about these problems?

01

Digging the road, destroying the road surface, and pulling the wire during installation, the installation cost is high and the later maintenance is difficult.

A large number of traffic police are needed to assist in the traffic flow. Ordinary traffic control systems do not have the function of camera detection or ground-sensing detection of vehicles, and are unable to conduct traffic flow control and manual intervention.

02

03

At complex intersections, ordinary wireless controllers(usually 1pcs master and 4pcs salve controller) cannot meet the needs of large and complex intersections, and cannot achieve zero wiring at all intersections.

The general control system to set intersections requires personnel to set up at the intersection, which is time-consuming, laborious, and slow in efficiency,resulting in serious blockage of the intersection.

04

Built-in wireless WIFI template

Wireless connection, APP setting plan

With WIFI communication between controller with mobile App.Set the distance within 20 meters. Control by Mobile APP, it's convenient for the program and debugging on the site.

Save a lot of mainpower and material resources

Wi-Fi connection, no digging, no wiring

The system adopts wireless communication between each direction and is composed of a master controller and salve controller , which saves the material and labor costs of laying cables.

Wide wireless coverage

200 meters coverage distance, stable signal

The signal coverage of the host and slave is wide, up to 200 meters, Signal stability.It is suitable for large and complex intersections.

Break through the number limit

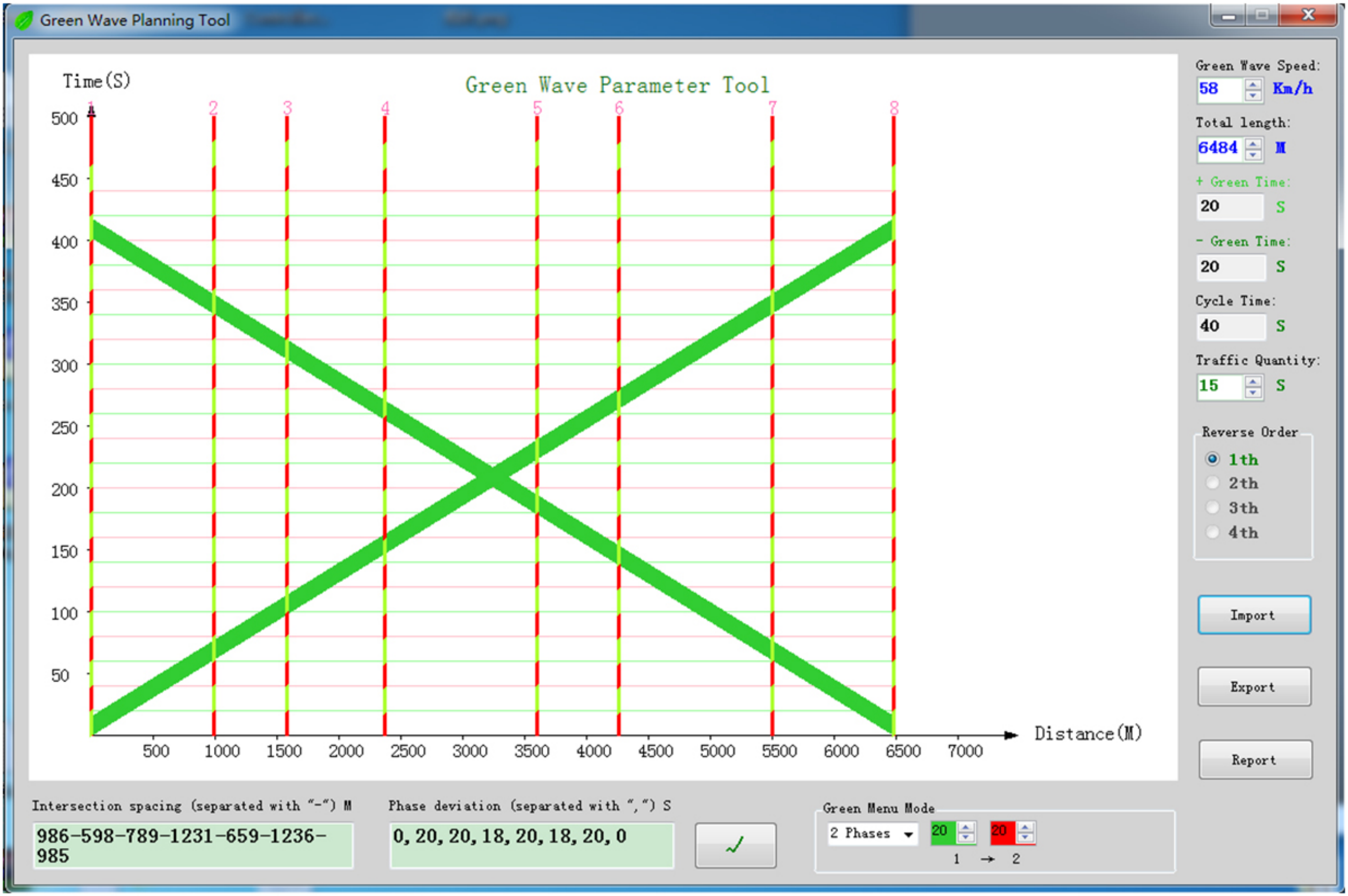
There are up to 16 slaves in the signal range

Not limited by power and wire. Only one master is needed and 16 slaves are used at the same time.

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 60 phases.Allowing week plan, special day plan, All red time, red extension, etc. The controller can be set up with a week plan setting (Monday to Sunday) and Holiday plan setting.

240 solution

30 period time

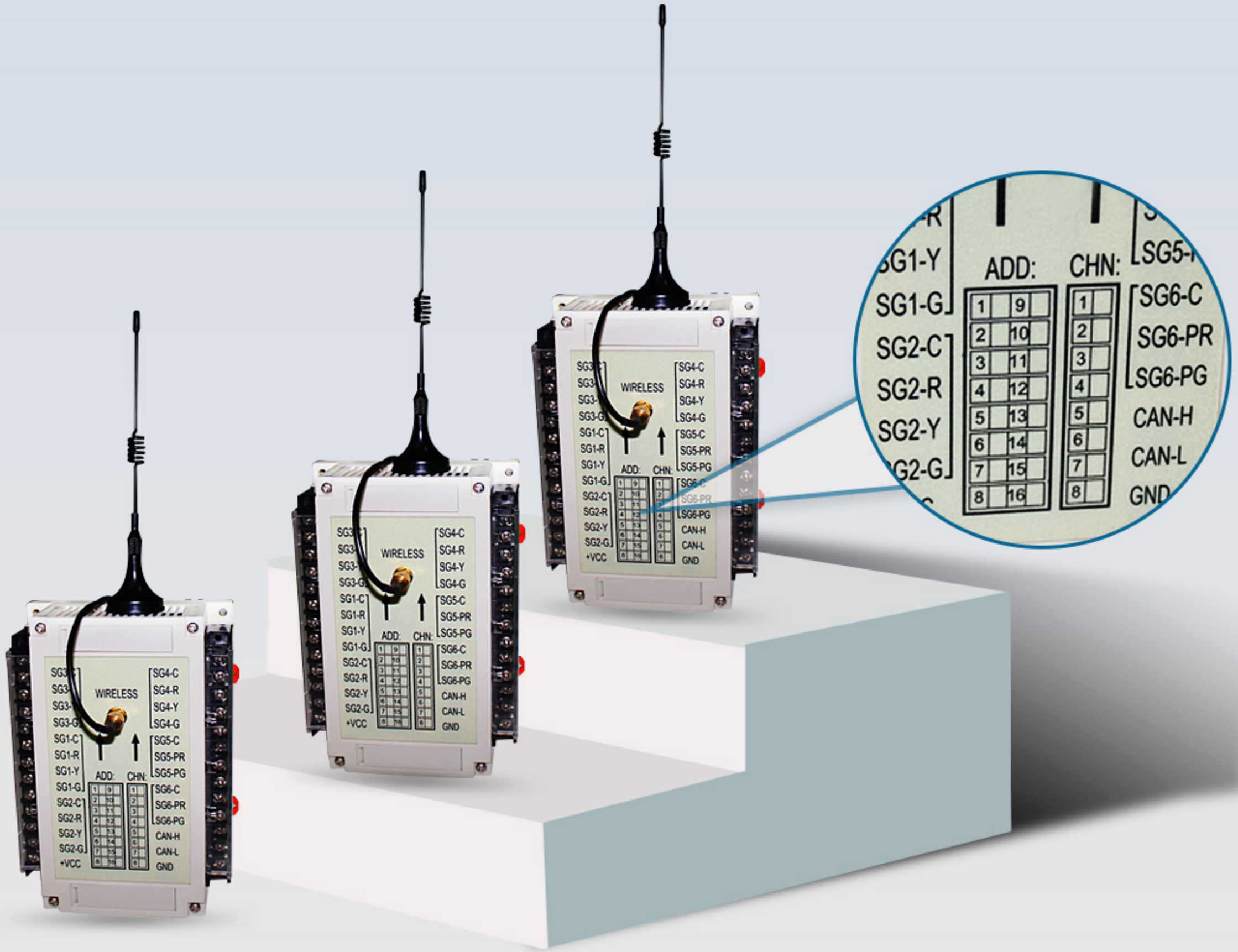
240 menus

60 phases

Each slave has an independent IP ADD

Independent IP, no signal interference

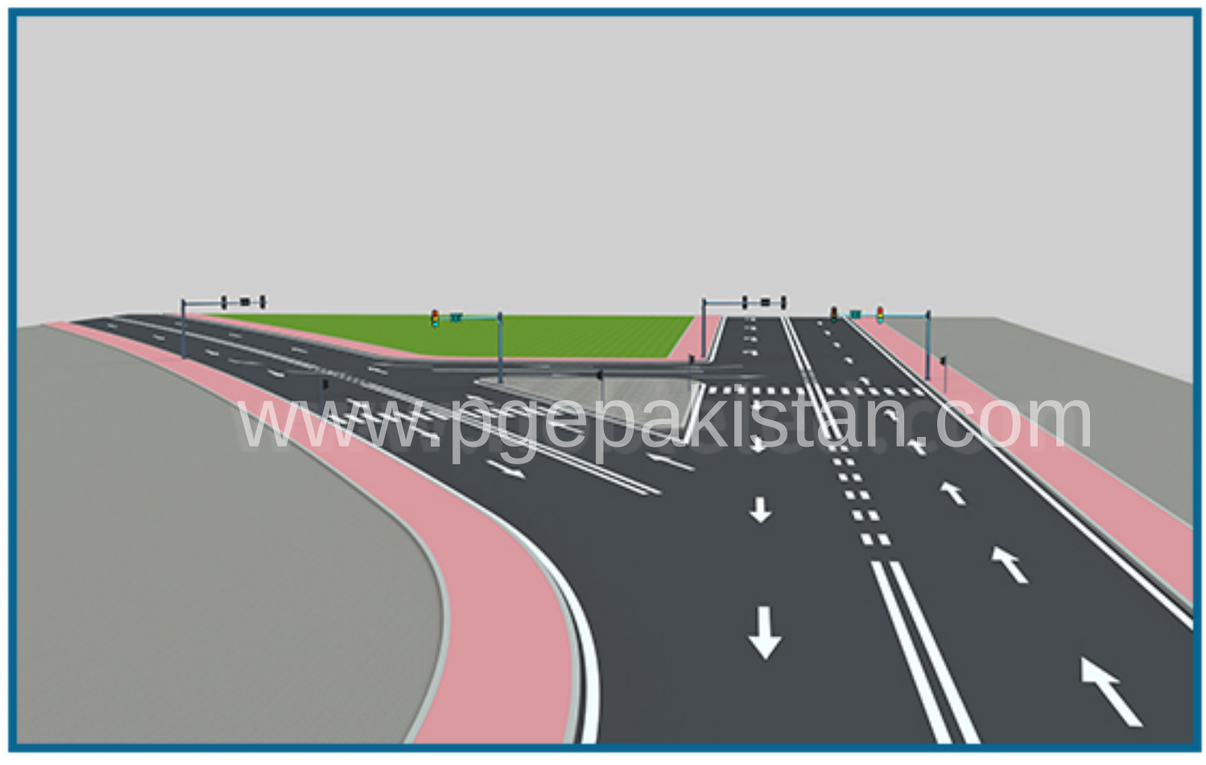
Each salve controller was its own IP address. You can set it in any direction. (East, South, West, North). 16 slaves are used at the same time, and the signals do not interfere with each other.

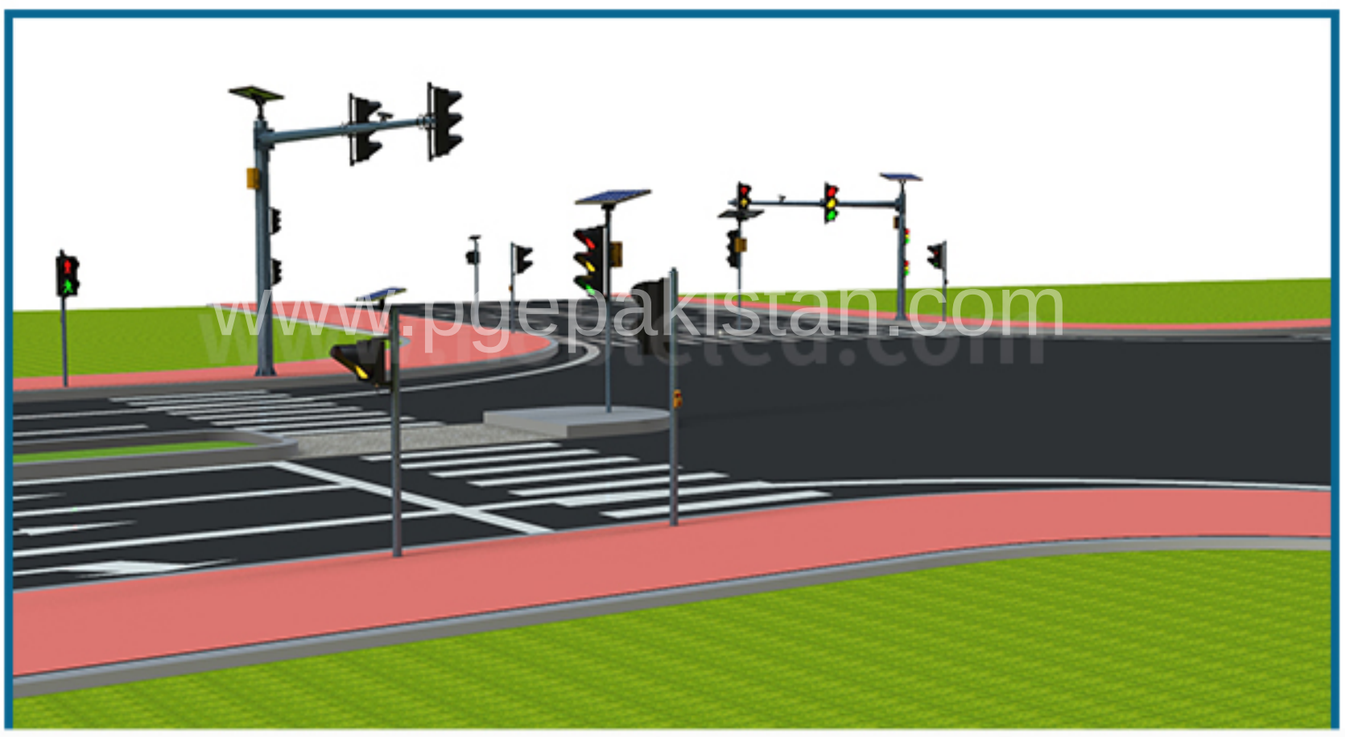


up to 64 drive controls

suitable for all kinds of common intersections

This system is suitable for all kinds of common intersections, such as crossroads, T-shaped intersections, single-shaped intersections, etc., and supports up to 52 drive controls (48 vehicle channel, 16 pedestrians channel)





Advanced communication facilities

Support multiple communication methods

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

WIFI communication

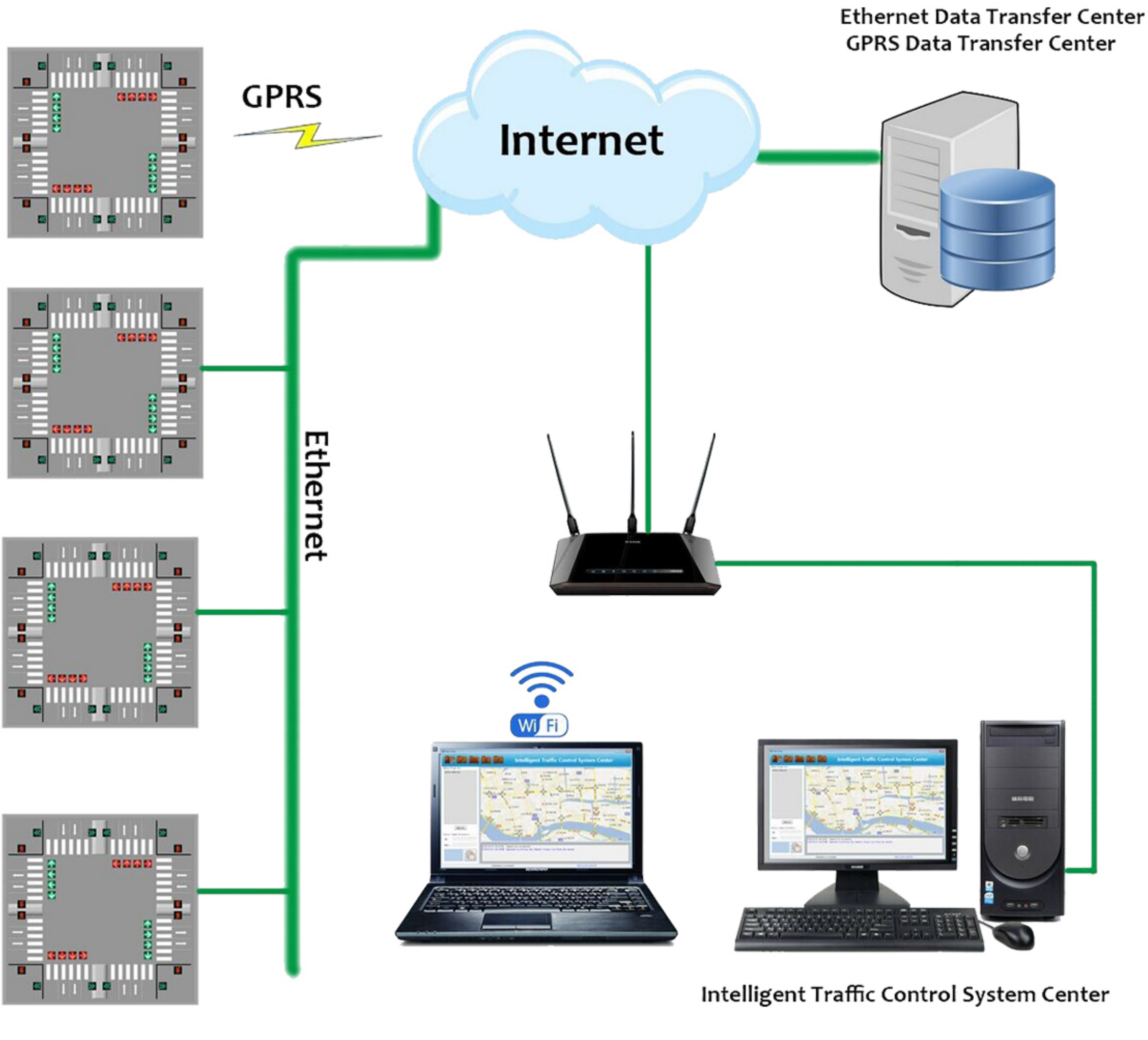
GPRS communication

Ethernet communication

4G communication

Centralized control management

Centralized control topology diagram



Intelligent management

Support Control center monitoring function

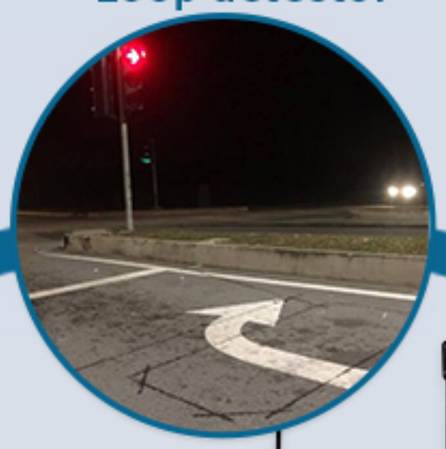
Control center monitoring function. The traffic control system can realize remote control center monitoring, online PC terminal for traffic flow control and manual intervention.

Small body, big energy

Multifunctional traffic controller, more powerful than you think

Multiple salve solar wireless controllers can work with the traffic light, video camera detector, push-button,loop detector or another device.

Loop detector



Push-button

Video detector

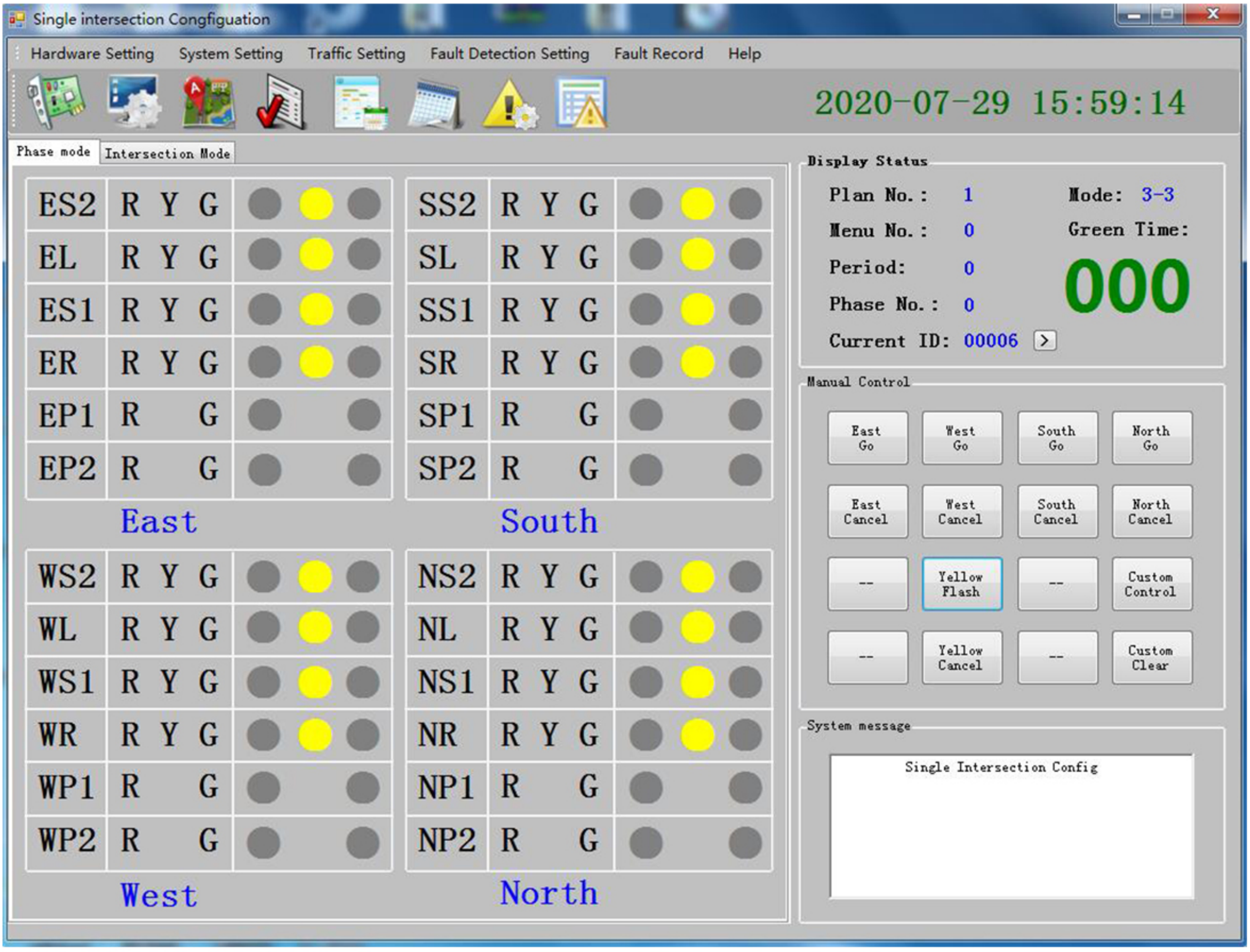
traffic light

Another device

Intelligent management

Support various special menus function

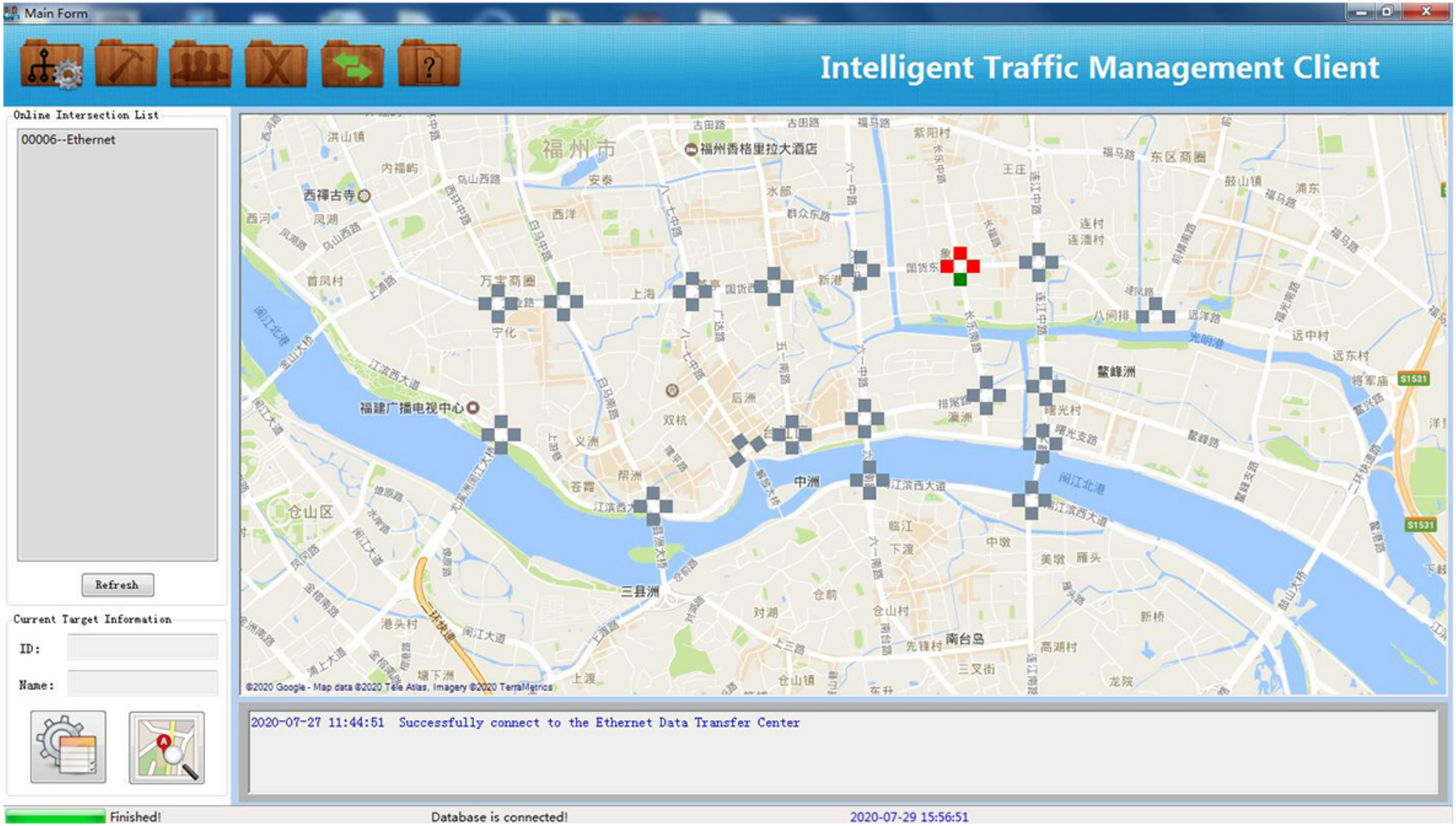
Support various special menus. Such as turn off the display, yellow flashing on all sides, all red on all sides, etc.



Intelligent management

The map support online map and offline map data

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



Meet the needs of different countries

The status of the light can be set globally

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.

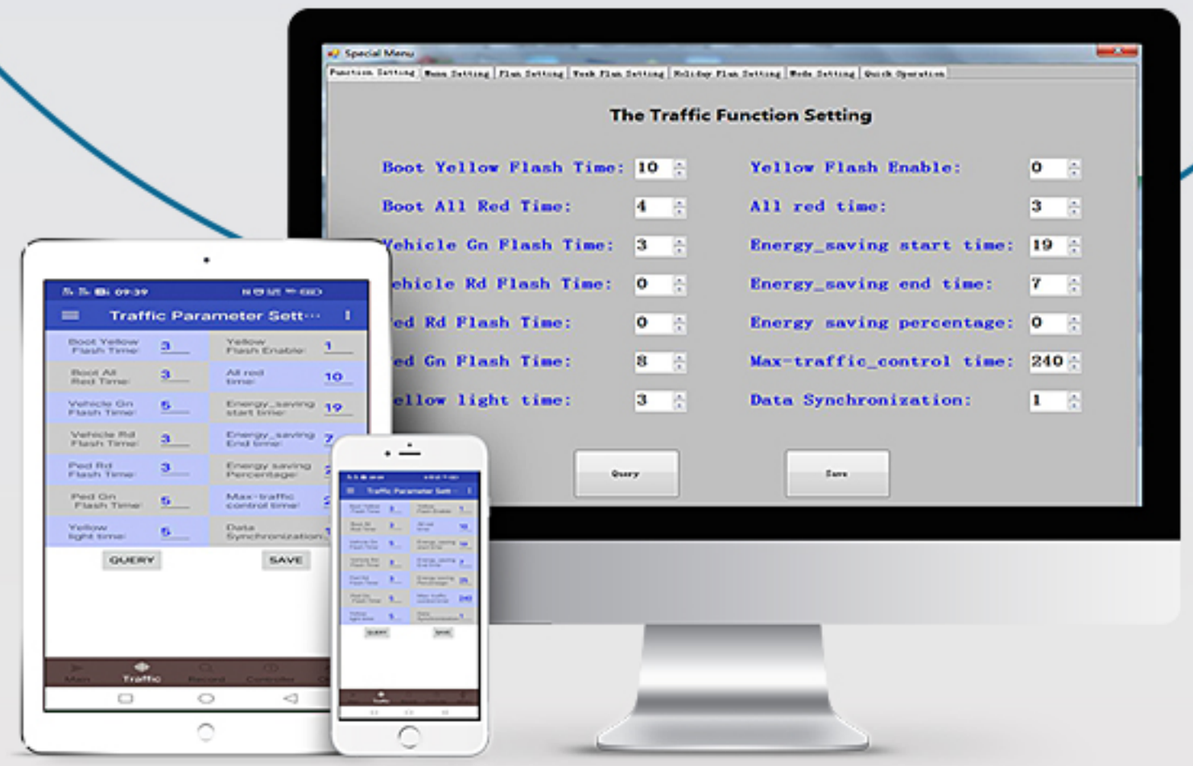
Set UP
yellow light time

Set UP
yellow flashing enable

Set UP
yellow light enable before the green light comes

Set UP
red light flashing in lane

Set UP
flashing time setting of pedestrian traffic light



Adapt to all kinds of bad weather

Working temperature range was -40℃ ~70 ℃

With High and low-temperature resistance. Multiple slave controller working temperature range was -40℃ ~70 ℃.

Double protection is safer

Coupled with cabinets, better waterproof

With the cabinet, the waterproof performance is better. The traffic controller, battery, solar charger and discharger, and slave are all placed in the cabinet, which is waterproof, safe and anti-theft.

With 5 years quality warranty

Strict QC department,quality assurance

With 5 years quality warranty. Good sales services and after-sale services.
Strict QC department. Before delivering goods to you. We will double-check goods quality.
Thus quality can be guaranteed.

One to one service

Designable intersection plan

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

online service

We can provide remote service

We can provide remote service. If you have some confusion or met the problem of the multiple salve controller system.

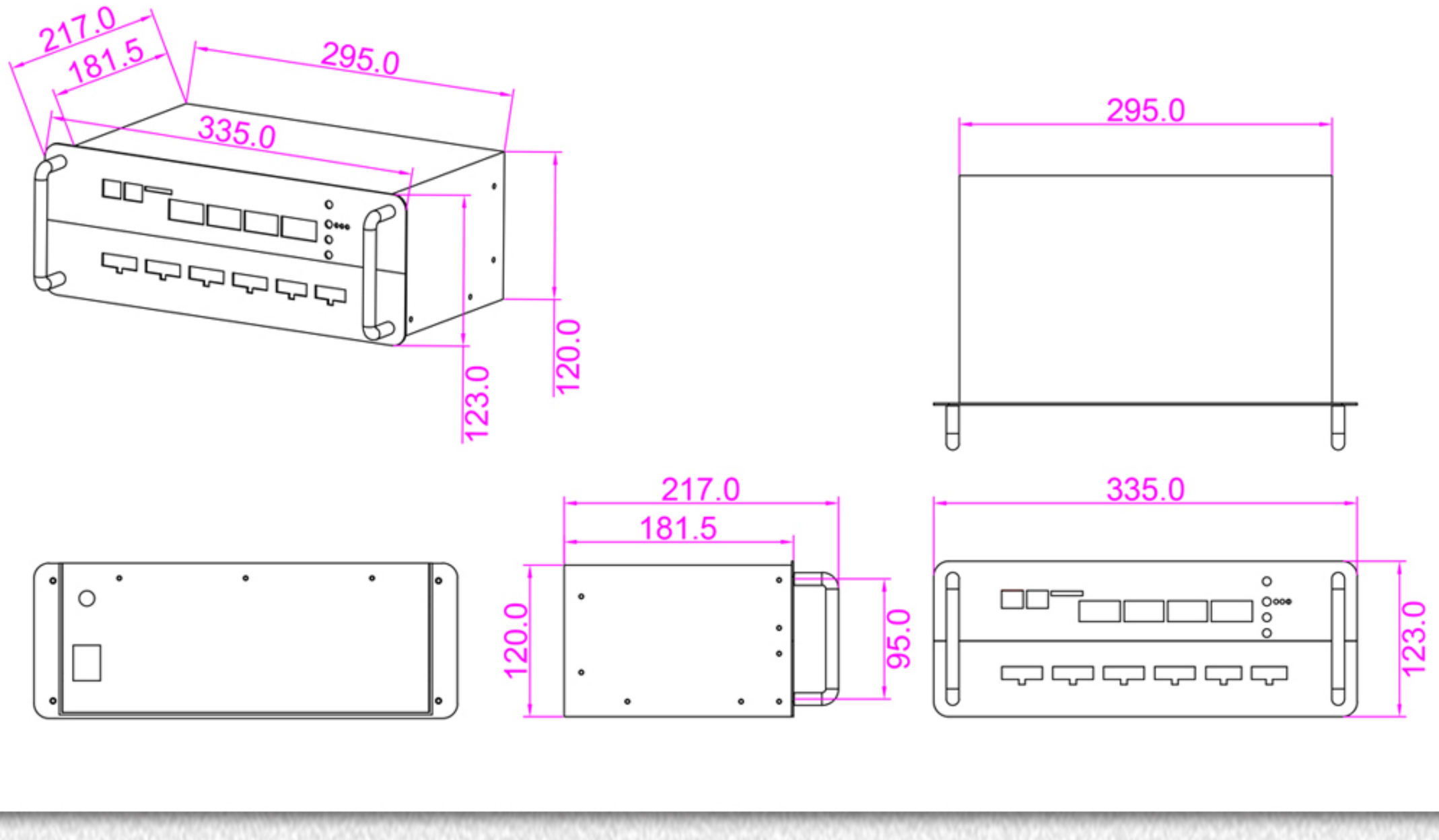
Hardware feature:

1. CPU adopts the ARM7 architecture 32-bit processor.
2.64Mbit Flash memory. The industrial-grade memory chip solution can guarantee that the data inside will not be lost for 30 years.
3. Support GPS time calibration.
4. Support GPRS remote communication. Remote synchronization and control can be carried out when the remote server is activated.
5. Support LAN communication. It can carry out LAN or WAN communication and can carry out centralized control of urban intersections with the support of related servers.
6. Support WIFI communication. The parameters can be set by wireless communication with the mobile phone APP (Android system mobile phone) to facilitate user operations and optimize the user experience.
7. Support wireless module. It can communicate with the corresponding slave controller wireless so as to avoid the construction cost such as breaking the road. Reliable communication distance between the master controller and slave controller ≦ 200m
8. Support 887 clock chip module. The industrial-grade clock chip can guarantee that the clock data will not be lost for 30 years even in the case of a power failure and guarantee its clock accuracy.
9. The input board contains:
Support up to 36 channel loop detection inputs (high voltage version supports up to 24 channel loop detector inputs), loop detection fault input (high voltage version)
10. Support 8-way pedestrian push-button detection input. Support wired or wireless detection (requires external receiving and transmitting module).

PC software features:

1. Friendly human-computer interaction interface, support real-time intersection data synchronization monitoring and remote parameter configuration
2. Support multiple communication networking modes of Ethernet, optical fiber, GPRS
3. Support multiple international mainstream maps such as Bing Map, Open Street Map, Open Cycle Map, Google Map, Nokia Ovi Map, etc., and support global map update
4. Support online and offline map data
5. Support two-way green wave belt centralized planning
6. Using Net multi-threaded programming technology, it can make full use of modern PC multi-core CPU hardware resources to build an efficient real-time centralized monitoring system for urban traffic and reduce system hardware investment.
7. Supporting LAN and WAN networks, system construction is freer, and monitoring tasks can be completed anywhere in the world where there is network access.
8. The software parameter settings all have a foolproof protection mechanism, and the program settings have a green wave zone conflict detection mechanism
9. Support real-time fault alarm, recording, analysis, convenient fault monitoring and analysis, and fault detection supports custom detection settings
10. Support Windows X86 and Windows X64 system
11. One-click installation

Technical specifications



A： Product Name:Master controller

Model: NBTSC-1M16S

Supply voltage: DC12V

Working current: 200MA

Working power: ≦3.5W

Communication protocol: in line with TCP/IP standard

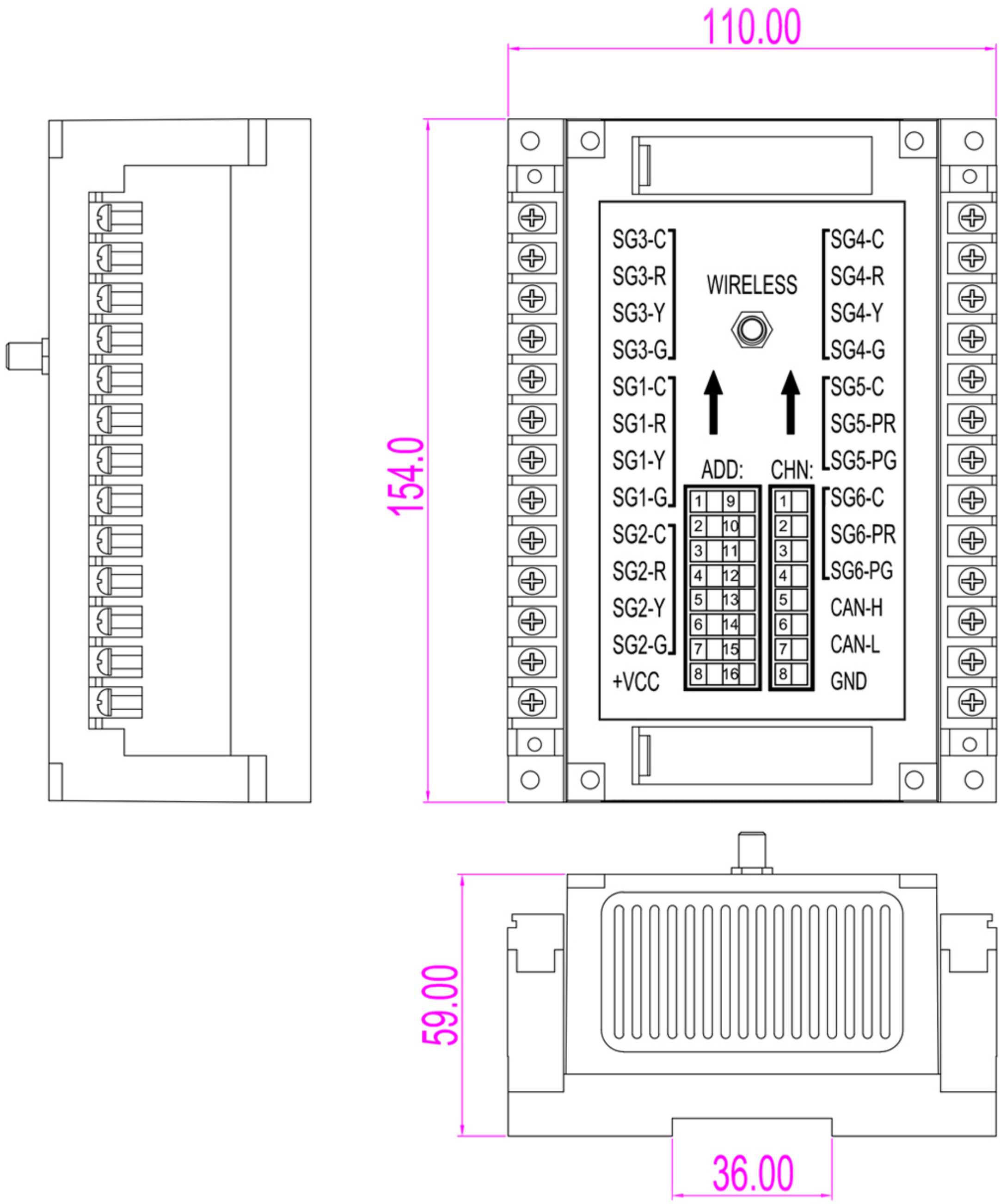
Working frequency band: Master-slave 433MHZ

Wireless communication distance: ≦200M (under open conditions)

Working environment temperature: -40℃-70℃

Working environment humidity: <95%

Protection level: IP54



B： Product name:Slave controller

Power supply voltage: DC12V.

Working current: 160MA Power ≦2.5W

Working frequency: 433MHZ

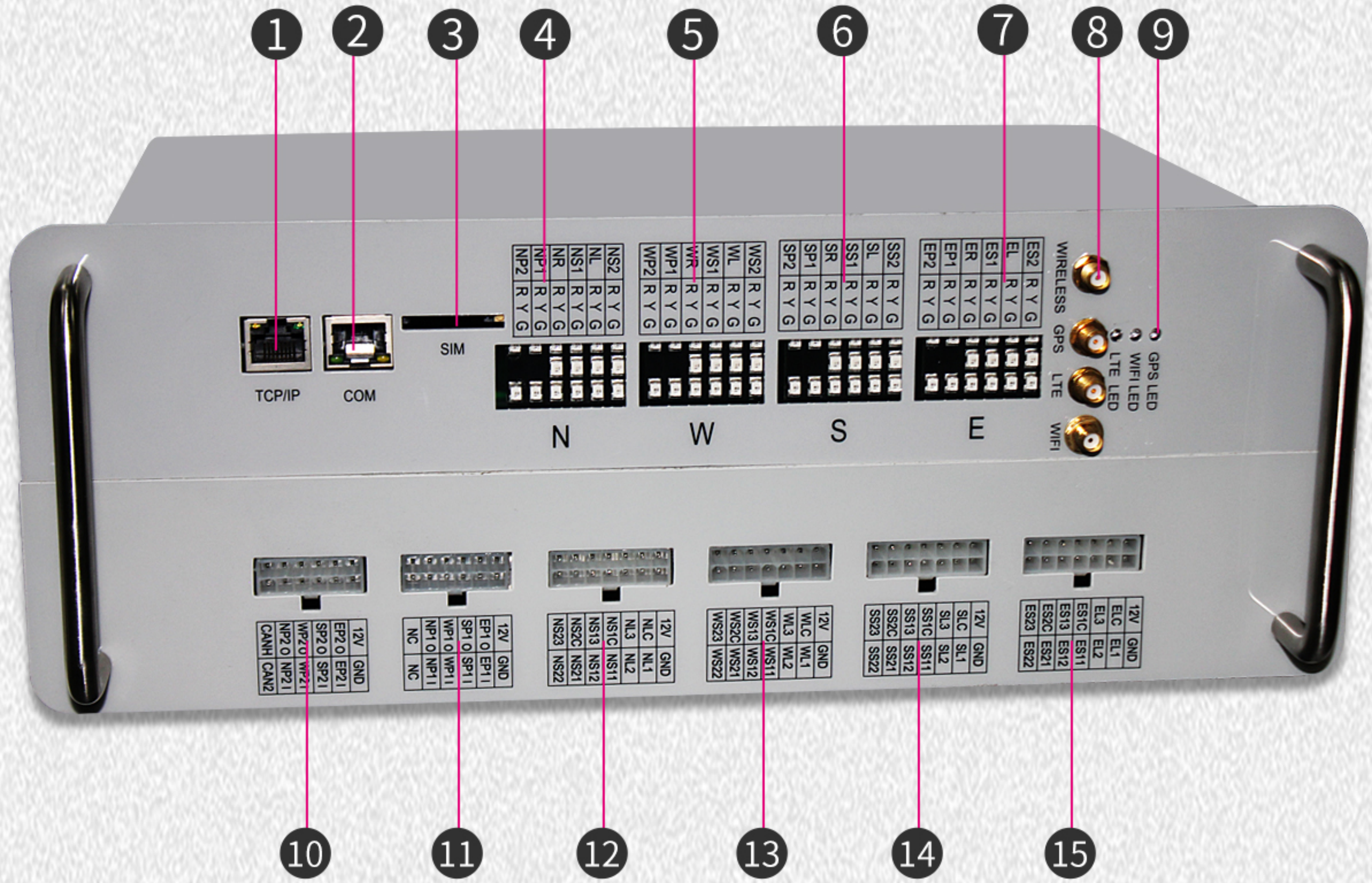
Wireless receiving distance: ≦200M (under open conditions)

Working environment temperature: -40℃-70℃

Working environment humidity: <95%

Panel introduction

Master Controller Front panel



1、RJ45 Network interface

2、COM interface

3、SIM card slot

4、Northern traffic indicator light

5、Western traffic indicator light

6、Southern traffic indicator light

7、Eastern traffic indicator light

8、Antenna interface

9、Signal indicator light

10、No.2 pedestrian push button interface

11、No.1 pedestrian push button interface

12、Northern interface of loop detector

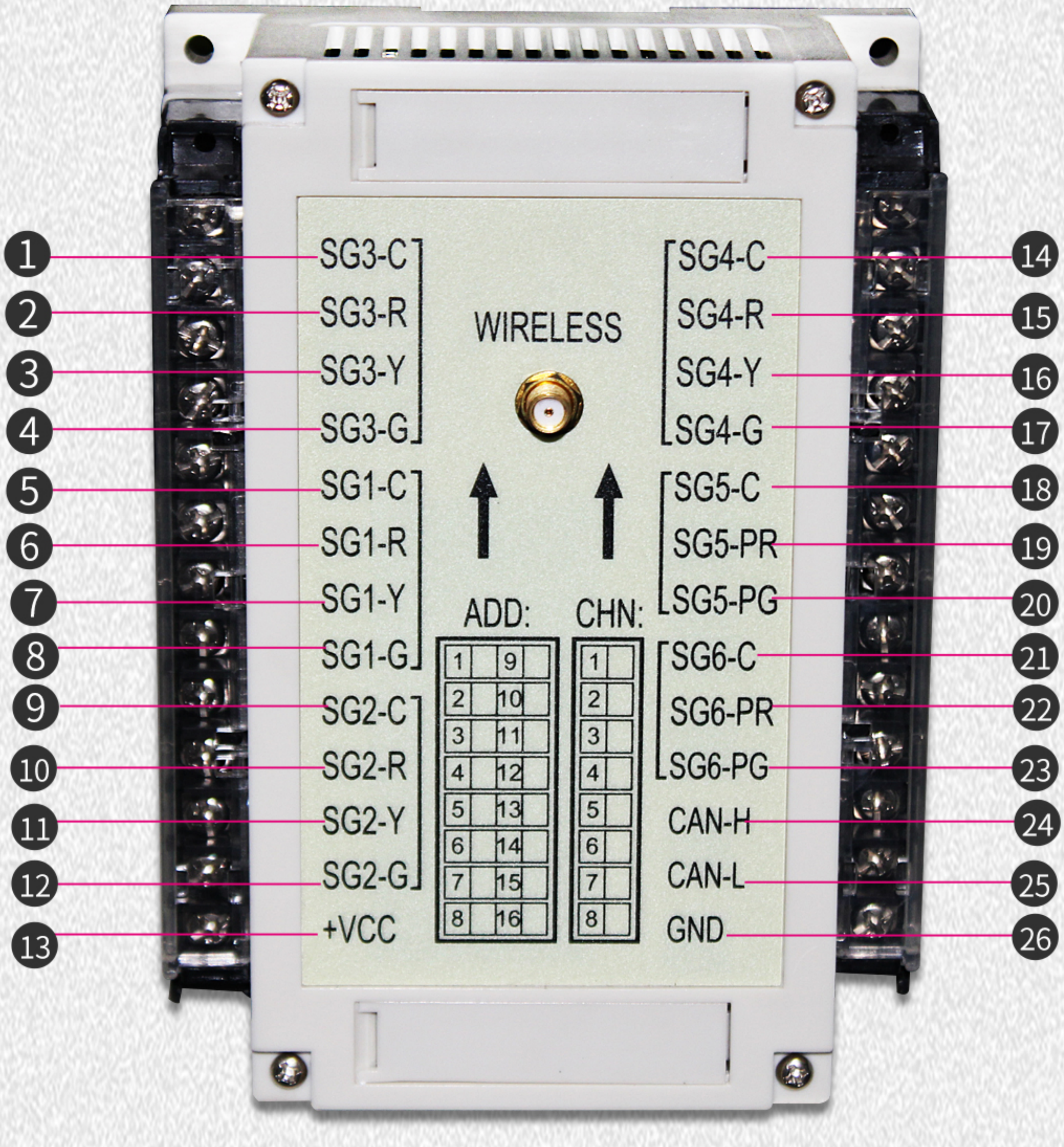
13、Western interface of loop detector

14、Southern interface of loop detector

15、Eastern interface of loop detector

Master Controller Back panel

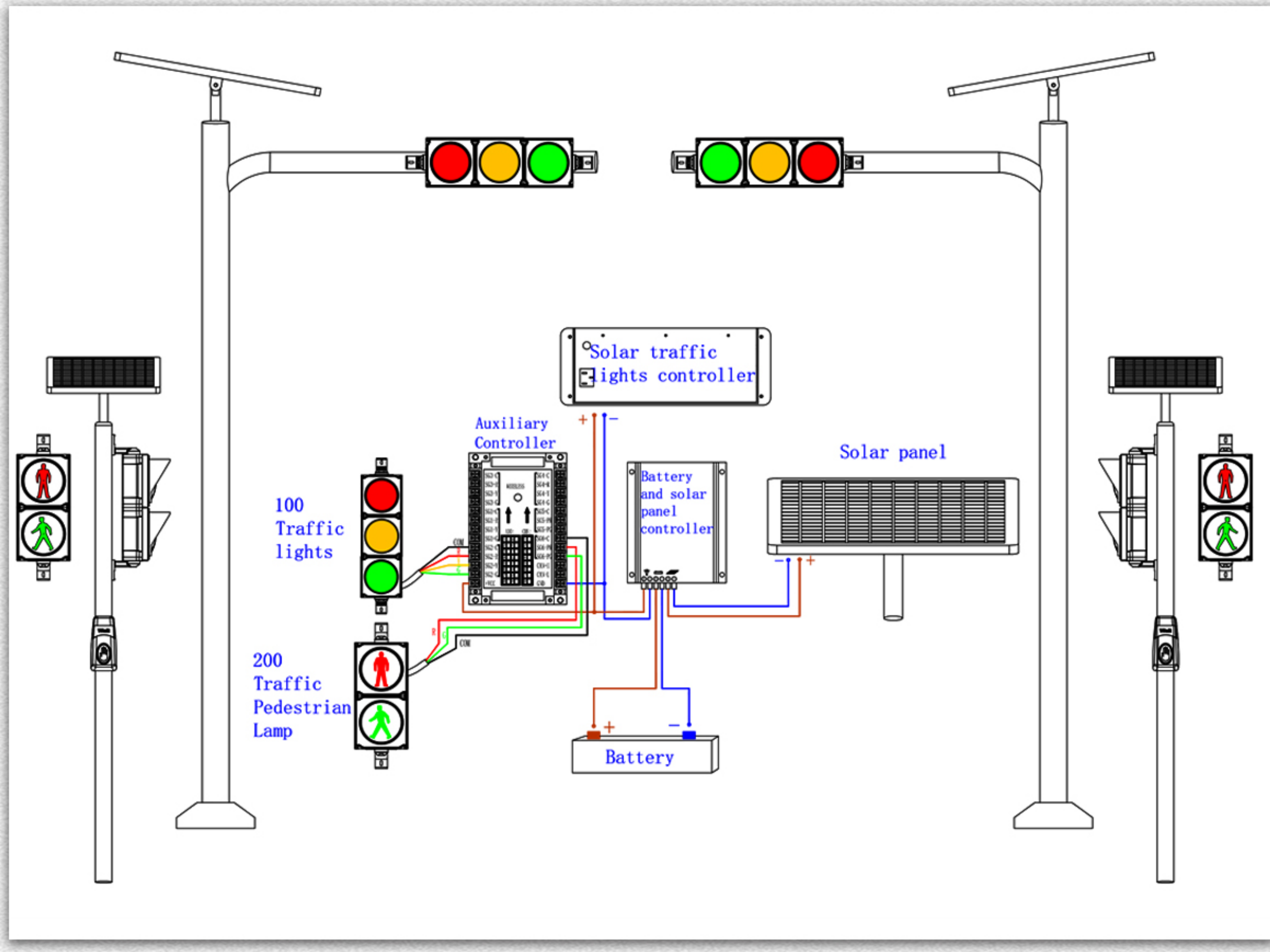
Slave Controller panel



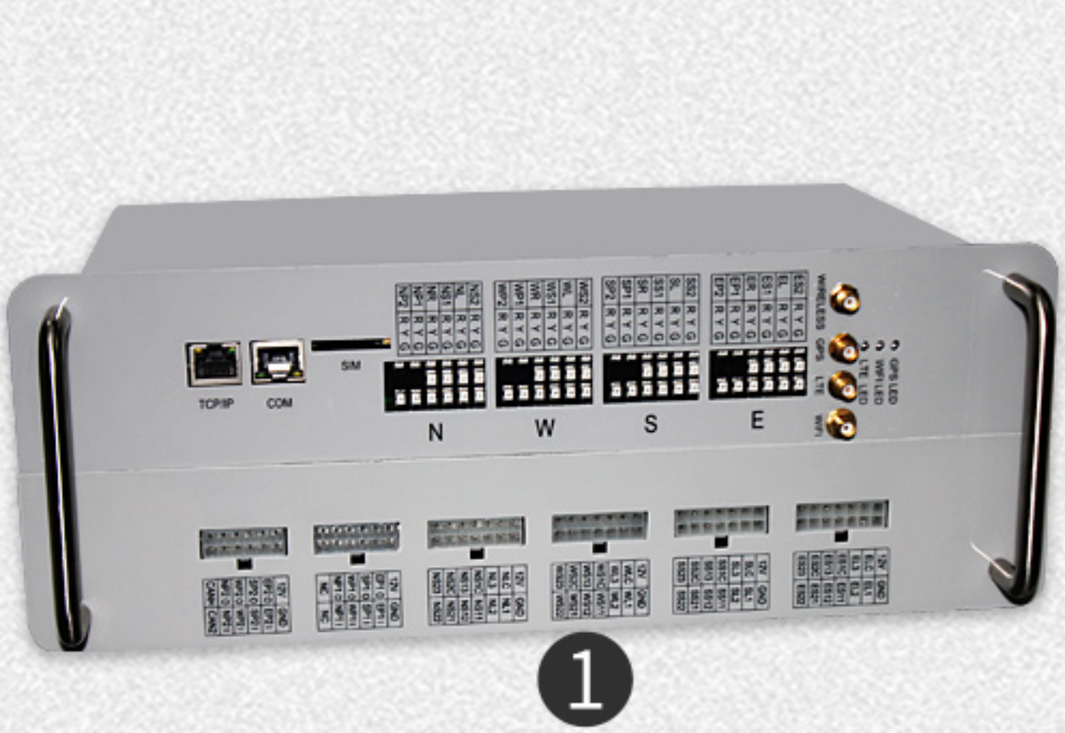
1、Straight 2 common line
2、Straight 2 red light
3、Straight 2 yellow light
4、Straight 2 green light
5、Turn left common line
6、Turn left red light
7、Turn left yellow light
8、Turn left green light
9、Straight 1 common line
10、Straight 1 red light
11、Straight 1 yellow light
12、Straight 1green light
13、Power supply

14、Turn right common line
15、Turn right red light
16、Turn right yellow light
17、Turn right green light
18、Pedestrian 1 common line
19、Pedestrian 1 red light
20、Pedestrian 1 green light
21、Pedestrian 2 common line
22、Pedestrian 2 red light
23、Pedestrian 2 green light
(24,25) 、CAN Communication Interface
26、Power supply

Wiring diagram



Packing List



X16

1、Master traffic controller 1pc

2、Slave traffic controller up to 16pcs

3、GPS antenna 1pc

4、Power cable 1pc

5、Cable 1pc

6、WIFI antenna 1pc

7、4G antenna 1pc

8、433 antenna up to 17pcs

9、User Manual 2PCS

10、DVD disc 1pc

Application