Traffic Signal Controller

TC-3500 Controller Series

- Up to 48 outputs are supported. The panel simulates and displays the intersection signal status in real-time.
- Provides RS232, 10M / 100M Ethernet and USB communication interface mode
- Green band single point adaptive
- LCD, Chinese and English available

Model	TC-3500
Chassis Size (L×W×H)	600×400×1300mm
Shell Materia	Powder Coated Stainless Steel
Ingress Protection Class	IP54
Working Temperature	-20°C ~ +70°C
Supply Output	110VAC / 230VAC (50/60Hz)
Resistance between Output Terminal and Grounding	>10MΩ
Power Consumption of the Whole Machine	≤24W
Maximum Period	32 pcs
Phase Number	16 pcs
Special Date	32 pcs
CPU	32Bit RISC Processor / 48MHz
Flash Memory	8MB
Protocol	JetfileII
Communication	RS232 / USB / Ethernet

TC-4000 Controller Series

Model	TC-4000
Chassis Size (L×W×H)	600×400×1300mm
Enclosure Material	Powder Coated Stainless Steel
Ingress Protection Class	IP54
Working Temperature	-20°C ~ +70°C
Supply Output	110VAC / 230VAC (50/60Hz)
Resistance between Output Terminal and Grounding	>10MΩ
Power Consumption of the Whole Machine	≤24W
Maximum Period	32 pcs
Phase Number	32 pcs
Special Date	32 pcs
Pedestrian Crossing Buttons are Supported at Most	4 channels (Optional)
GPS Clock Adjustment	Support
CPU	Cortex-A8800MHz 512MB Memory and 8GB Storage Memory
Flash Memory	8MB
Protocol	JetfileII / GBT-20999
Communication	RS232 / RS485 / Dua / Gigabit Network Port

- Up to 48 outputs are supported.
- Provides RS232, dual Gigabit network port communication interface mode.
- With side door quick control yellow flash, full red, manual and shutdown functions.
- 1280x800 HD 7-inch touch screen.
- Supports 4-way pedestrian crossing buttons.
- Supports GPS green band coordination function.

TC-5000 Controller Series

- Up to 72 outputs are supported
- The panel simulates and displays intersection signal status in real time
- Provide RS232, RJ45 and USB communication interface mode
- Provide 8 groups of pedestrian key input channels
- Support GPS green band coordination function
- With side door quick control, yellow flashing, full red, manual and shutdown function panel, real-time analog display of intersection signals light status
- System self-inspection, recording fault information, including fault type, time, date and other remote networking control functions.
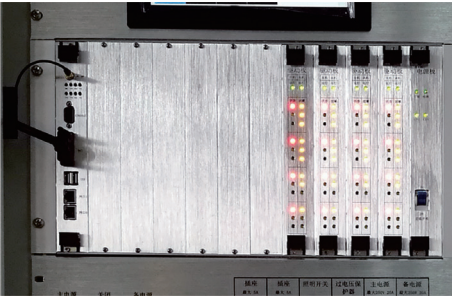- Support regional adaptive coordinated control and

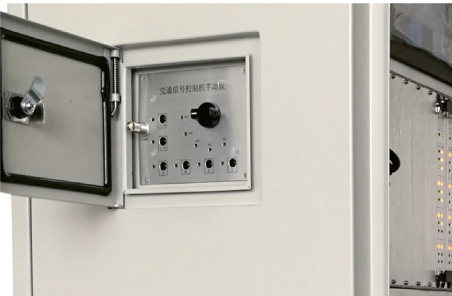| Model	TC-5000
Chassis Size (L×W×H)	600×470×1500mm
Enclosure Material	Powder Coated Stainless Steel
Ingress Protection Class	IP54
Working Temperature	-20°C ~ +70°C
Supply Output	110VAC / 230VAC (50/60Hz)
Resistance Between Output Terminal and Grounding	>50MΩ
Power Consumption of the Whole Machine	≤50W
Maximum Period	32 pcs
Phase Number	32 pcs
Special Date	32 pcs
Pedestrian Crossing Buttons are Supported at Most	8 channels
GPS Clock Adjustment	Support
CPU	32Bit RISC Processor / 48MHz
Flash Memory	8MB
Protocol	JetfileII
Communicatione	RS232 / RS485 / USB / Ethernet

TC-7000 Controller Series

Feature

- Separated design: the main controller is separated from the signal driver modules, easier for installation, maintenance and testing
- Vehicle flow collector, pedestrian passage controller and main controller are individual modules, which can be collected according to different requirements
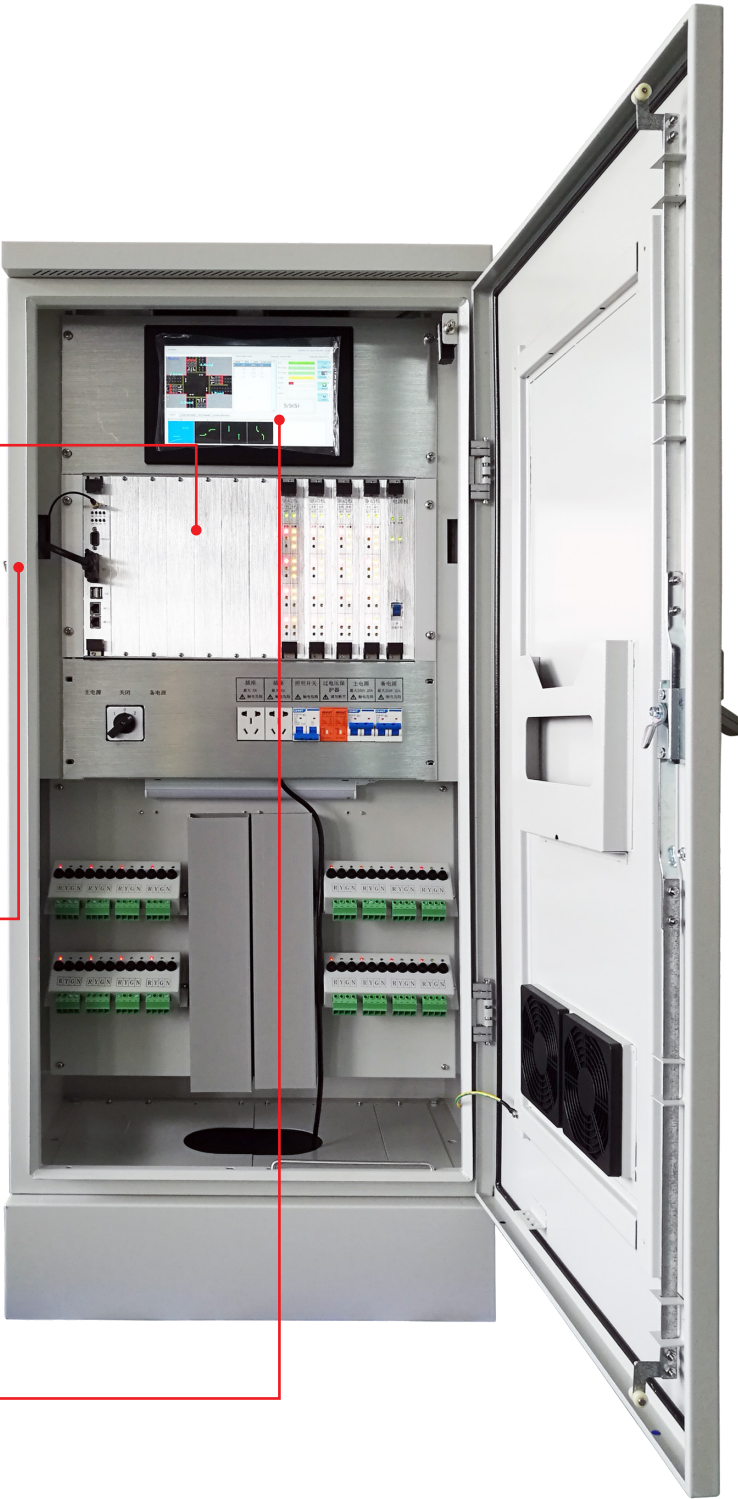

The 48 route circle traffic flow detector

Manual panel of traffic signal controller

1280×800 10-inch capacitive touch screen

TC-7000 System

Feature

- TI ARM Cortex-A8 1G industrial processor, onboard 512MB memory and 8GB memory are adopted
- 1280×800 10-inch capacitive touch screen
- High speed and accurate signal lamp true RMS current detection technology (acquisition rate: 50 Sa/S, acquisition range: 0-1A) seamlessly realizes double gigabit network ports for signal lamp parallel open circuit detection, realizes independent access of background server and video traffic flow detection, and improves system reliability
- The 48-route circle traffic flow detector supports the detection of traffic flow, vehicle speed, vehicle type classification, headway, occupancy and other parameters
- The signal lamp driver is of modular design, with a maximum of 10 modules and 120 outputs
- The output module adopts a self-recovery fuse; In case of short circuit, it will recover automatically without replacement of the 8-way pedestrian crossing control machine
- Dual power supply design to enhance system fault tolerance
- The red and green signal light power supply is equipped with an independent switch. When the short circuit fault of the red and green signal light of the output module is detected, the power supply of the red and green signal light is automatically cut off to prevent traffic accidents
- Compatible with NTCIP communication protocol
- Design of operating system and SQL database based on Linux 4.0
- It supports parallel operation of 5 virtual intersections, and all virtual intersections have an independent time period, operation schemes and other configurations
- The second level records design and all information such as light state, current, temperature and faults every second
- GPS and NTP dual timing
- SD card data automatic backup and recovery function to quickly replace the faulty motherboard

Specification

Module	TC-7000
Chassis Size (L×W×H)	600×470×1500mm
Enclosure Material	Powder Coated Stainless Steel
Ingress Protection Class	IP54
Work Temperature	-20°C ~ +70°C
Supply Output	110VAC / 230VAC (50/60Hz)
Main Control Panel Display Screen	1280x800 LCD Screen and Capacitive Touch Screen
Maximum Period	32 pcs
Phase Number	32 pcs
Special Date	32 pcs
Maximum Number of Signal Lamp Output Channels	120 channels
Maximum Number of Coil Type Traffic Detectors Supported	48 channels
Pedestrian Crossing Buttons are Supported at Most	8 channels
GPS Clock Adjustment	GPS and NTP Dual Timing
CPU	TI ARM® Cortex ™ A8 (1GHz) Processor
Flash Memory	512MB
Protocol	JetfileII / GBT-20999 (Design of Operating System and SQL Database Based on Linux 4.0)
Communication	RS232 / RS485 / Dual Gigabit Network Port

Company

Fixed VMS

Mobile VMS

Lane Sign

PIS

Traffic Signal

Control Center

Cases