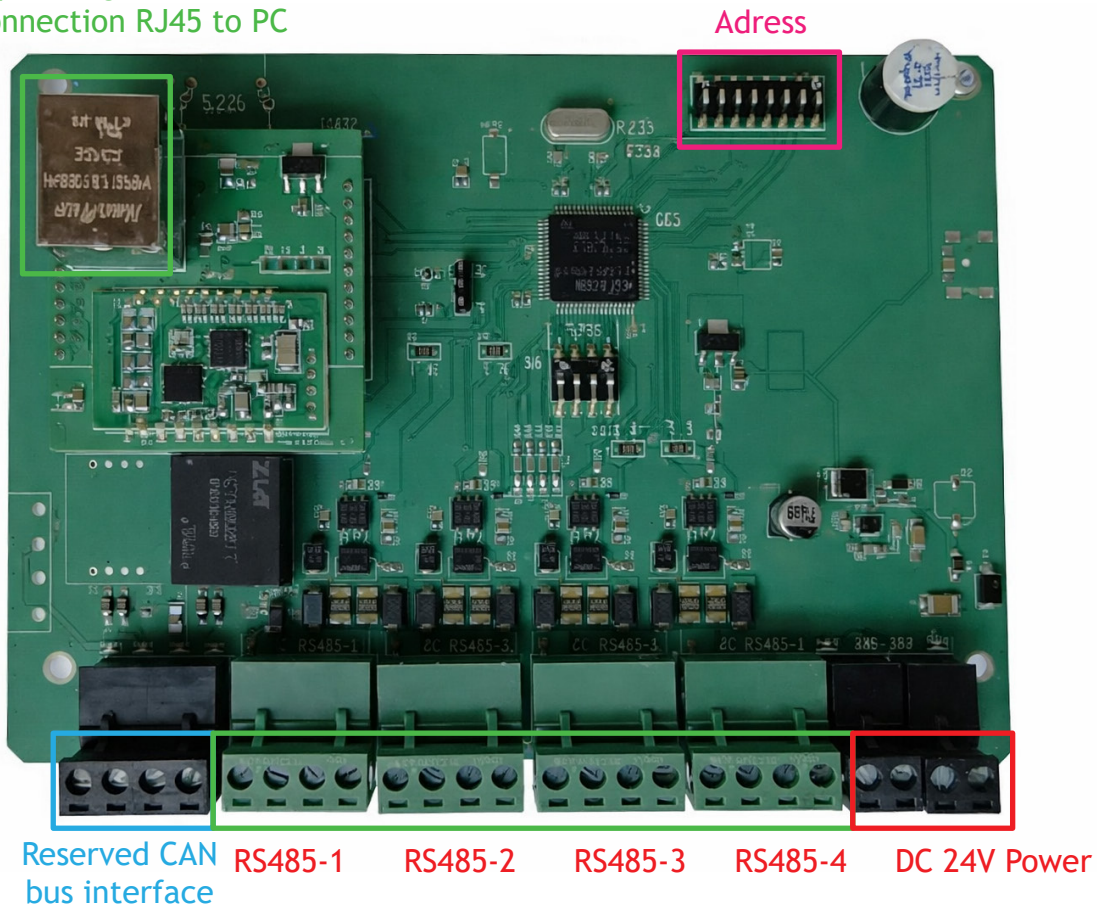


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TCP ultrasonic controller

Operating mode:
TCP connection RJ45 to PC



1 Product Overview

The TCP ultrasonic controller manages its subordinate wired ultrasonic detectors and uploads probe status information to the PC via TCP, solving the network configuration problem for ultrasonic controllers.

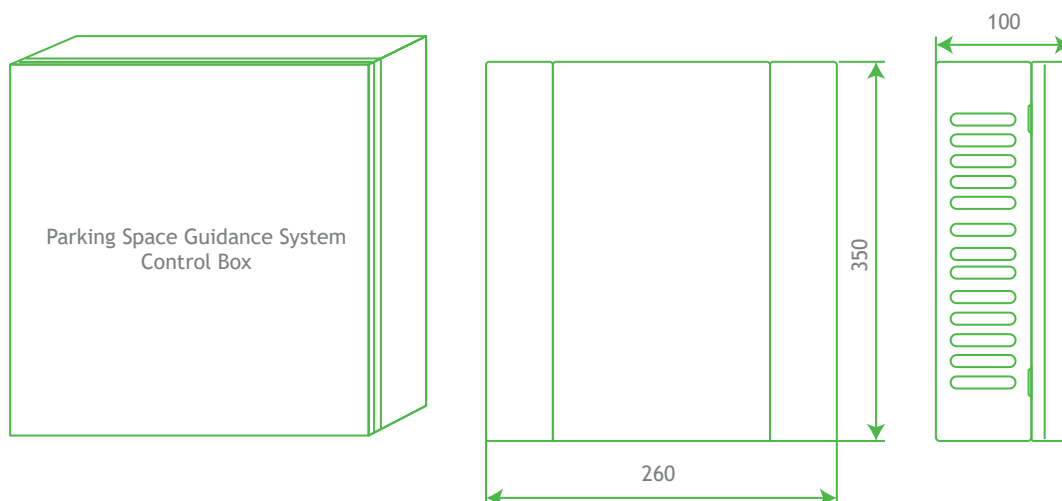
2 Product Features

- 2.1** It uses an advanced international 32-bit ARM processor with an all-industrial-grade design, ensuring the product's stability and reliability.
- 2.2** The entire system controller can be remotely upgraded, facilitating system maintenance and upgrades, and always meeting user needs.
- 2.3** Data is uploaded using industrial-grade TCP communication, ensuring stable and reliable signal transmission. It can work within a local area network, avoiding complex wiring.
- 2.4** The device features short-circuit, over-voltage, and overload protection functions to prevent electrical damage to related equipment caused by wiring errors during installation.
- 2.5** The product adopts an industrial design and has passed rigorous testing for electrostatic discharge, lightning strikes, surges, and pulse interference, ensuring reliable operation.
- 2.6** Uploading or querying can be done in two ways.

3 Technical Specifications

Product Model:	TZ10-21J-CN	Operating Temperature:	-20 ~ +65 °C
Dimensions:	350*260*100mm	Operating Voltage:	DC24V
Net Weight:	3.9Kg	Power Consumption:	≤3W (self-consumption, excluding detectors)
Enclosure Material:	Black cold-rolled steel with spray coating	Communication Interface:	1 TCP/IP 4 RS485
Capacity:	Full load with 120 detectors (4 channels * 30 detectors) Recommended Connection: Around 60 detectors	Communication Distance:	TCP: ≤100m RS485: ≤300m

TCP Ultrasonic Controller Technical Specifications Table



TCP Ultrasonic Control Box Dimension Diagram (350*260*100mm)



TCP ultrasonic control box physical diagram (260*350*105mm)

4 Product Installation

AC220V power supply, with an internal DC24V power source. Install at a height of approximately 2.5 meters on the wall.

- 4.1 Connect the AC220V RVV3*1.5 power supply cable to the input terminal of the circuit breaker (ground wire should be connected to the controller's enclosure).
- 4.2 Connect the 4 channels of RS485 detectors and display screen connection cables. It is recommended to use RVV20.75 for power supply and RVSP20.75 for communication. The detectors are powered centrally by the controller's internal DC24V power source. The display screen requires an external AC220V power supply, and the communication cable should be connected to the switch's network port.

5 Usage and Maintenance

- 5.1 Only authorized personnel should operate system equipment to prevent accidental operations that could cause system failure.
- 5.2 After completing the system configuration, ensure a backup is made to prevent loss or damage, reducing maintenance workload.
- 5.3 When replacing faulty equipment, disconnect the power supply first to avoid damaging the device during operation.
- 5.4 If the system is not functioning correctly, first check the power supply of all devices to ensure they haven't been accidentally turned off.