840mm

140mm

105mm

ZLT P90 User Manual

V1.0

Thank you for choosing our wireless data terminal product. In order to make you better use the terminal, please read this manual carefully and keep it for use after reading.

Note: Because of the product upgrade and other reasons, the contents of this manual may differ from the actual product. We will slowly improve the printing errors and inconsistencies with the latest information. All changes will be made without prior notice. We reserve the right of final interpretation.

ZLT P90 is an outdoor CAT5E IEC P56, which converts all wireless network data to wired network port data. The device adopts built-in high-gain directional antenna and industrial-grade chipset design, with a wireless rate of up to 300Mbps, and supports non-blocking data transmission. Suitable for home or business scenarios requiring rapid deployment of wireless network network.

I. Main technical indicators of products

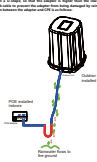
- Operating temperature:
  Outdoor Unit: -40℃ ~ 65℃; Other: -40 ℃ ~ 55 ℃ Storage temperature: -40℃~100℃
- Relative Humidity: 5%~95%
- Power Supply: Power Adapter supply 24V/1A ;
  Ground indoors, working temperature: 20℃ ~ +40℃;
- Size: 120 mm* 170 mm* 175 mm
- Weight: 1.0 kg

II. Installation instructions

1) Take out the outdoor wireless data terminal, install the bracket and the outdoor wireless data terminal together, and integrate the bracket and the outdoor wireless data terminal, and fix the bracket and the outdoor wireless data terminal in the position that needs to be installed, and ensure that the wireless data terminal is firmly fixed.
2) Install the SIM card into the card slot according to the direction marked on the terminal, and lock the cover of the card slot and the waterproof pad of the card slot cover to the card slot to ensure sealing.
3) According to the actual situation, choose the appropriate length of RJ45 network cable (less than 100m in length), pay attention to the use of standard 8-core network cable, and first pass the network cable through the fixed cap and the waterproof protective cover, and insert the cable into the RJ45 network port.
4) There are two ways to supply power to outdoor wireless data terminals. One is to connect the network cable to the LAN/PoE port of the indoor unit, and use the network port of the indoor unit. In this way, only the network cable connected to the outdoor unit is connected to Ethernet of the indoor unit, and then the indoor unit is powered, and the outdoor unit can learn and work. Another way is to purchase our standard POE power supply, connect the network cable connected to the POE port of the POE power supply, with then insert the POE power supply into the 220V power outlet, you can give the outdoor power supply.

Note:

1. **Recommended SOM installation**
2. **When take the SIM card, do not touch the metal contact surface to avoid electrostatic damage to the card.**
3. **When connecting the network cable to the POE adapter, reserve a length of the network cable in a U-shape, so that the adapter is higher than the lowest point of the network cable to prevent the adapter from being damaged by rain.The connection diagram between the adapter and LAN**



III. About the data terminal:

The terminal is an outdoor IEC P56 LAN network, and can be used with POE power supply or equipped with our power adapter.

3.1 Appearance Interface Introduction

Figure 1 Appearance diagram

Figure 2. Appearance view

Interface	Interface area	Remarks
LAN	Ethernet interface for POE power supply and data PING and PORT MANAGEMENT	
SIM	SIM card interface, please insert the SIM card in the SIM card slot in the direction marked	Pull out the card slot in the SIM card slot in the direction

3.2 Indicator

Indicator	Status	Description
Power	off	Power supply is not turned on or off
	Blue	Power supply is normal turned on
SIM	off	No SIM card is inserted or the SIM card is not recognized
5G	off	5G signal is not received or the 5G signal is weak
	Blue	5G signal is received
LAN	off	The network connection is abnormal
	Blinking	Network port communication is normal
	Blue	Ethernet data receiving and receiving of the network port
RF	off	No signal
	Blue	The number of signal bars shows that the device is currently receiving the signal and it has a mobile phone signal

IV. Access to the Internet

The terminal supports RJ45 standard network cable only to connect the computer, without any drive. Support Windows XP, Windows 7, Windows 8, Windows 10, Mac OS, Linux, Android and other operating systems

4.1 Data terminal readiness

Before accessing the Ethernet, check the following options:

- The power indicator is on.
- The SIM card is inserted, please check the SIM card indicator.
- The LAN Port Link Blue, please check whether the network cable is plugged in normally.
- Whether the 5G Blue are on or not, the more Blue lights up, the 5G signal Bars indicate a good signal strength.

4.2 Connecting Computers

The terminal and the computer can be connected through the RJ45 standard network cable, please set the computer address acquisition mode to "automatically obtain an IP address".

4.3 Access Site Setting

Enter the IP address over the computer on the device in the browser, then enter the username and password to access the terminal configuration page.The default user name and password of the terminal are "admin".

V. Configuration of data terminal

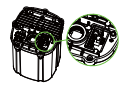
After configuring the data terminal, make sure the data terminal works properly and the computer is connected to the data terminal. Then log in to the data terminal's configuration page for configuration. Data terminal configuration page parameters provide by carrier, please contact the carrier for the specific parameter information. Enter the IP address of the data terminal in the browser, Press "Install" key to restore factory settings.

Primary Menu	Secondary Menu	Operational instructions
Home Page	Equipment Basic Information	Displayed SIM card information and equipment parameters. Check signal strength and network
System Status	Information	View mobile network information and ▶
	Cellular Network	View cellular network information and ▶
	Local Area Network	View local area network information and ▶
	Wireless Network	View Wi-Fi network information and ▶
	Network Port Information	View the LAN network information and port information
	Network Port Statistics	View LAN port network information and user information
	Network Connection Statistics	View device running status, memory usage

Primary Menu	Secondary Menu	Operational instructions
Network Settings	5G/4G Cellular Configuration	Set cellular network, APN, PLMN, data service, PLMN scanning, etc.
	APN	Set APN parameters. The need to fill out the APN parameter information provided by the carrier. Changes may lead to the access to the network failure. It is not recommended.
	IP Address	Set the IP address
	2.4G Wlan configuration	Set the 2.4G Wlan network, network name, SSID, password, encryption mode, channel and bandwidth. Changes to the network will cause the connection interface of the data terminal Wi-Fi hard base. The channel number and bandwidth of the 2.4G Wlan network in the terminal which can be modified by the user. Changes to channel and bandwidth may affect the 2.4G Wlan network connection.
	5G Wlan configuration	Set the 5G Wlan network, network name, SSID, password, encryption mode, channel and bandwidth. Changes to the network will cause the connection interface of the data terminal Wi-Fi hard base. The channel number and bandwidth of the 5G Wlan network in the terminal which can be modified by the user. Changes to channel and bandwidth may affect the 5G Wlan network connection.
Device Setup	Set IP Settings	Set the IP address of the terminal, gateway IP address and subnet mask. Save after the changes.
	Restore Factory Settings	Restore the factory settings of the terminal. ▶
	Reboot Configuration	Set parameters of daily rebooting
Time ▶	Time Zone Settings	Set the time zone. Choose the time zone, Date Format, Time Format, Time Sync ▶
	Manual Date	Manually set the date and time of the terminal. Click Save ▶ to save the changes.
Management	System Settings	▶ Restore Factory Settings: Restore the factory settings. Reboot: Reboot the terminal ▶ Change Admin Password: Change the login password of the terminal ▶
	Ping Test	Ping test function ▶
	Network Port Statistics	Network port statistics information
	Network Port Diagnostics	Network port diagnostic information
	Upgrade System	Upgrade system ▶ Upgrade system ▶
	Upgrade Log ▶	View upgrade logs

VI. Installation instructions

6.1 Insert the SIM card into the card slot in the direction indicated



6.2 Cover the waterproof ring and SIM card cover, and tighten the screws

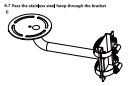
6.3 Tighten the screws in the center of the bracket, (do not tighten them too tightly)

6.4 Pass the network cable through the externally fixed cable fixing head in order, paying attention to the direction (waterproof ring 2 can be cut and used)

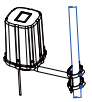
6.5 Press the waterproof squeeze ring into the buckle slot (part 2 in the gore shown into 3)

6.6 First insert the network cable into the LAN/PoE port of the outdoor unit, and then tighten the externally fixed cable fixing head (If it is not tightened, the waterproof effect will not be achieved)

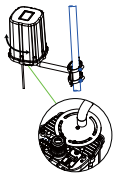
6.7 Pass the stainless steel hoop through the bracket



6.8 Secure the stainless steel hoop to the retaining rod

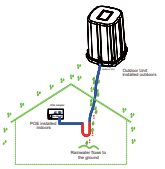


6.9 Turn the device so that it faces the base station, tighten the screws in the center of the bracket, and fasten the other two screws

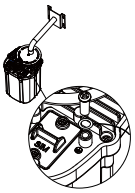


6.10 connect the network cable to the POE port of the adapter and power on the device.

Note: When connecting the outdoor unit network cable to the POE adapter, reserve a certain length of network cable according to the following figure to ensure that the lower point of the network cable is lower than that of the adapter to prevent rainwater from flowing into the adapter.



6.11 If conditions permit, please ground the equipment.



FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following:

measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the re-calibration statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

正面

反面

裁切线

折叠线

展开尺寸：W840x H140mm，折后尺寸：W105 x H140mm，

材质：80g书写纸，单黑双面印刷

	签名	日期	名称	料号		图号	版本号
设计	胡雅丽	2024.11.11	P90 USA748 说明书	01.80110709			SP-0
核对				数量	图纸比例	机 型	
审核			材料	1			
标准				广州通则康威科技股份有限公司			
工艺							
批准							