




SALM-SSV

# Serial Server User Manual

User Manual

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## Company Profile

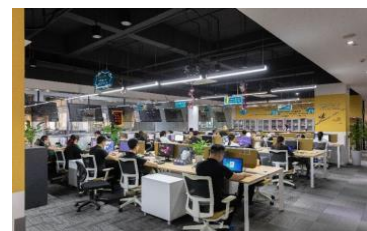
Shenzhen HORB Technology Corp.Ltd. (Hereinafter Referred To As “HORB”) Was Established In 2001 , Headquarter Located In Baoan District Of Shenzhen City, Listed On The National Stock Transfer System(Stock Code: 870762),It Has Been Approved As A National High-Tech Enterprise, A Specialized And Special New Enterprise In Guangdong Province, A "Contract-Abiding And Credit-Worthy" Enterprise In Guangdong Province, The Sixth Innovation Top 100 Enterprise Of Shenzhen City, Post-Doctoral Innovation Practice Base, Shenzhen Vocational And Technical College Practice Base... HORB Is The Vice Director Of Shenzhen Clean Industry System Solution (The Chairman Unit Of The Anti-Static Professional Committee), The Vice President Of Shanghai ESD Association, The Member Of Anti-Static Equipment Of China Electronic Instruments Industry Association, And The Member Of ESD Association Of The United States.

HORB Technology Has Long Been Committed To The Research And Development And Service Of "Controlled Environment Intelligent System Solutions", Based On Clean Control Technology, Electrostatic Protection Technology, Vision And Information Technology. Provide P+1 Smart Clean Space Engineering, P02 Clean Cloud Smart Control Platform, P03 Smart VMI Consumables Integration, +1 Solution Integrating Consulting And Training. Customers Are Mainly Concentrated In High-End Electronics Manufacturing, Biomedicine, Military Industrial Institutes, And Government And Enterprise Units.

We Have Applied For And Approved More Than 30 Invention Patents, More Than 30 Utility Model Patents, 3 PCT International Patent, More Than 10 Software Copyrights, More Than 30 Domestic Trademarks, 4 Madrid Trademarks, About 30 Products CE Certified, National Industrial Production Permit, ISO9001, ISO14001,OHSAS18001, ISO13485 System Certification, LA Certification, Domestic Second-Class Medical Device Certification, Multi-Country Medical Device Product Certification And System Certification. Participation In The Preparation Of 6 National Standards, 1 Industry Standard, 3 Group Standard.

HORB People Do Not Forget The Original Ideals And Aspirations, Always Adhere To Provide Customers With High-Quality Products And Services. Best Resource, Owned By HORB, Is The First Professional Organization In China To Focus On The Research And Promotion Of ESD Protection Technology And Clean Technology, Shenzhen Higher Vocational College's Contracted Industry-University-Research Cooperation Unit, Clean Engineering Professional Teaching Agent, INARTE Authorized China Regional Examination Center Of ESD Engineers Of United States, Senior Consultant Of Multiple Institutions And Enterprises. As Of The End Of 2022, Serving More Than 5,000 Enterprises And Training Professional Talents With More Than 40,000 Person-Times And Efforts To Be Made To Provide The Country With More Professional And Technical Personnel In The Industry.

HORB Is Adhering To The “Being Customer –Focused, Credibility And Openness, Profession And Diligence, Co-Creation And Sharing” Values, To Achieve “To Make Every Enterprise & Family More Safe And Cleaner, To Make Every Customer More Moved, To Make Every Employee More Happier, To Make Every Partner More Satisfied” Corporation Mission, Constantly Improve The Competitiveness Of Enterprises, Has Been Set Up Own Brands: HORB, Clean Cloud, BFN, ECO, KANBO, Yijielianghang, BEST-RESOURCE, Sijiali, Howay,Gradually Formed A Stronger Core Technology And Brand Advantages, Set Up Domestic Offices In Beijing, Yantai, Qingdao, Suzhou, Chongqing, And Chengdu, And Set Up Overseas Subsidiaries In Hong Kong, Thailand, Vietnam, The Philippines, India, And Germany. And With Many Domestic And Foreign Brand Enterprises, Such As: Huawei, OPPO, BOE, Foxconn, Flextronics, Samsung, WD, Seagate, Sony, Military Institutes, Government And Enterprise Units Have Established Long-Term Cooperative Relations.



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# 1. Product Introduction

The SALM-SSV Serial Server provides the serial port to Ethernet conversion function, which can convert the serial port (RS232/485) into a TCP/IP network interface to realize bidirectional transparent data transmission between the serial port (RS232/485) and Ethernet. It enables serial port devices to immediately have the TCP/IP network networking function, realize network connection and data communication, and greatly extend the communication distance of serial port devices.

The SALM-SSV Serial Server supports device networking through communication methods such as RS232/485, ISM433, and LoRa.



# 2. Technical Parameters

No.	Item	Parameter
1	Operating Environment	Indoor use, Temperature: 0°C ~ 50°C, Humidity: 20% ~ 85%RH
2	Working Voltage	DC 9V (AST 5V terminal power socket is additionally configured)
3	IP Address	Default IP address of the product: 192.168.16.178
4	Baud Rate	19200 bit/s
5	Parity Bit	8N1
6	Air Rate	5Kbps
7	Channel	100
8	Address	100
9	FEC	Off
10	Product Size	Overall size: L119.10*W94.20mm*24.30mm (Wired Version); L132.40*W94.20mm*24.30mm (Wireless Version)

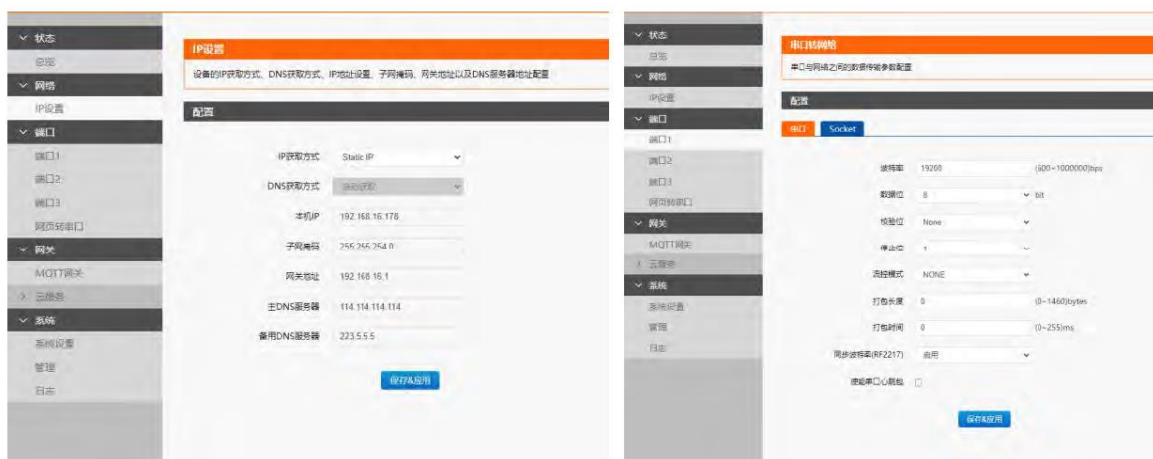
### 3. Packing List

Category	Material Name	Quantity	Description/Remarks
1	SALM-SSV (Wired Version)	1 unit	Subject to customer requirements
2	SALM-SSV (Wireless Version)	1 unit	
3	9V1A Power Adapter	1 piece	Accessory
4	2P Green Terminal Female Header	1 piece	
5	4P Green Terminal Female Header	1 piece	
6	Warranty Card	1 sheet	Attachment
7	User Manual	1 copy	
Category	Material Name	Quantity	Description/Remarks

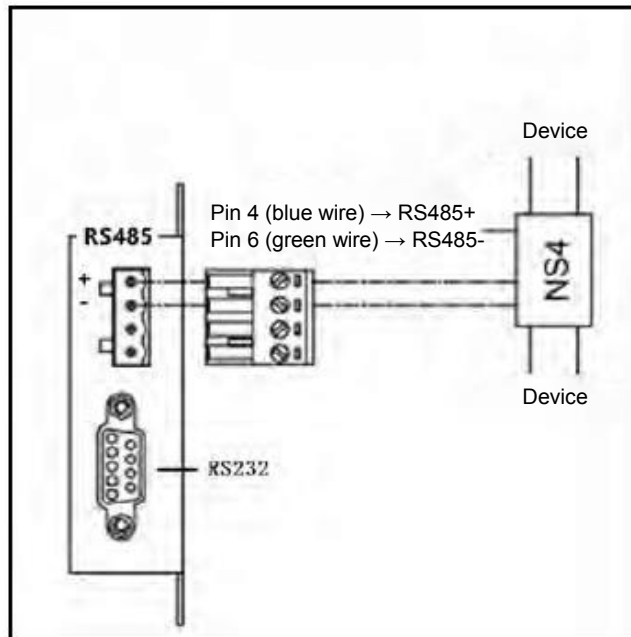
### 4. Function Introduction

#### ◆ IP Setting

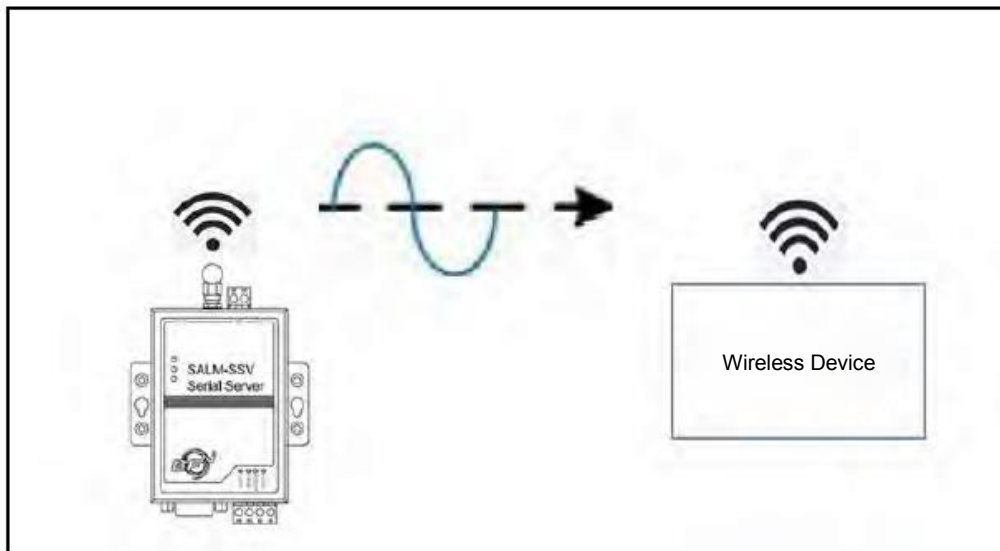
- ✧ After the SSV is connected to the network, log in to <http://192.168.16.178/> to modify and set the IP address and port. Account: admin, Password: admin.



- ◆ Realize data transmission with devices through wired RS485 or RS232 serial port



- ◆ Realize data transmission with devices through wireless LoRa or ISM433



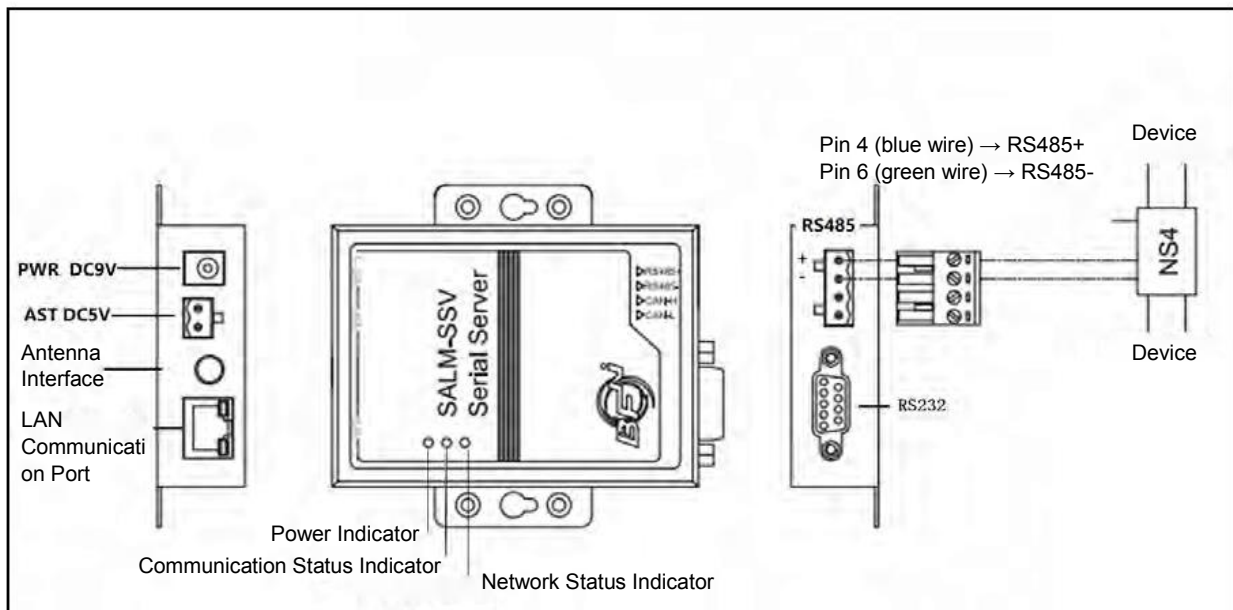
The wireless parameter settings of the device must be consistent with the wireless settings of the SALM-SSV Serial Server, please refer to the "Technical Parameters"

## ◆ Working Environment

Indoor use, Temperature: 0°C ~ 50°C, Humidity: 20% ~ 85%RH

# 5. Installation Instructions

## ◆ Interface and Wiring Instructions



### ◇ Front Interface Function Description:

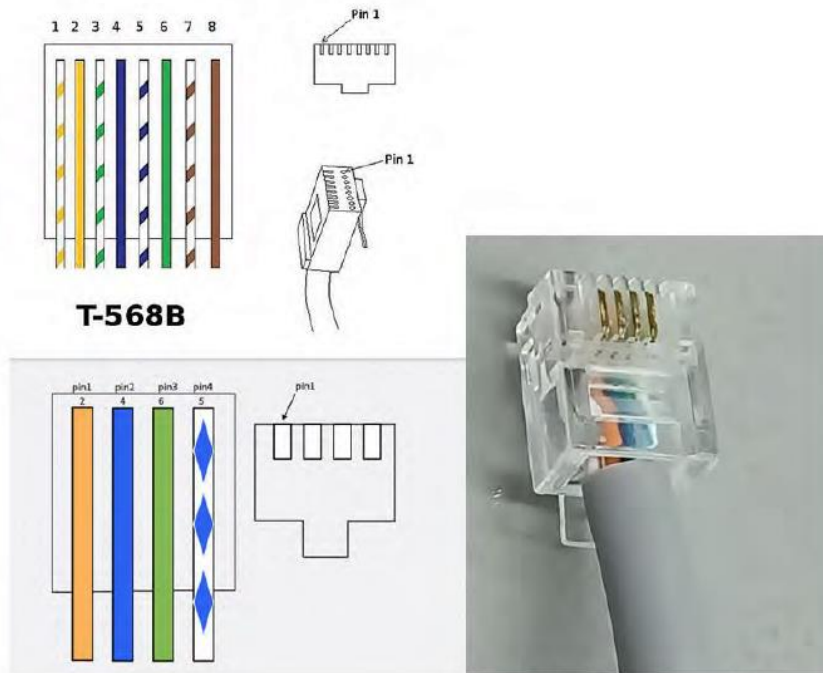
1. PWR Power Supply: DC9V power supply
2. AST Interface: 5V terminal power socket (standby)
3. Antenna Interface: External antenna interface for the wireless version
4. LAN Communication Port: Wired communication for the wired version, connect the network cable with 8P8C RJ45 connector

### ◇ Indicator Light Status Description:

1. Power Indicator: The red light is always on after the DC9V power supply is connected
2. Network Status Indicator: The green light is always on after accessing the LAN network
3. Communication Status Indicator: Flashing indicates that the device is communicating with the outside.

❖ Rear Interface Function Description:

1. RS485 Interface: Need to wire with a four-core telephone line (the 2P blue wire is connected to RS485+, the 3P green wire is connected to RS485-) or a T568B straight-through network cable (the 4P blue wire is connected to RS485+, the 6P green wire is connected to RS485-). See the figure below for wiring.
2. RS232: DP9 communication interface.



Wire sequence: Orange, Blue, Green, Blue-White

◆ Installation Steps

1. Install according to the interface and wiring instructions;
2. Install the product at a relatively reasonable position around the device and fix it with M3 self-drilling screws.

