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Communication Expert of
Industrial IOT

Outdoor Wireless Bridge

ST208E/ST208S



Introduction

ST208 series are the high performance 2.4G wireless bridge. It adopts Qualcomm wireless solution which can ensure the stable and reliable data transmission. It comes with high gain antenna, the theoretical wireless rate is up to 300Mbps, and the measured coverage distance can reach 300 meters. It supports PoE injector and power adapter to power on the device and comes with 2 x 10/100Mbps RJ45 ports. PUSR offers 2 version for customers to choose from: the standard version and the external antenna version.

Point to point extend network WiFi range, extend the network in the house to your barn, garage, church, warehouse, and even neighbor's house through wireless bridge signal transmission. It can be widely used in warehouses, farms, and house lane monitoring systems.

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Product Features

- Professional outdoor shell design, IP64 waterproof.
- 802.11n standard, up to 300Mbps rate.
- Pre-paired by default, plug and play.
- Support 9-24VDC PoE power supply input or DC power supply.
- Adjustable wireless transmission power, to avoid the same frequency interference.
- Point-to-point and point to multiple points networking.
- Support remote and centralized management with DM platform.
- It's suggested to use in environments with a height of less than 300 meters.

Dimensions

Unit: mm

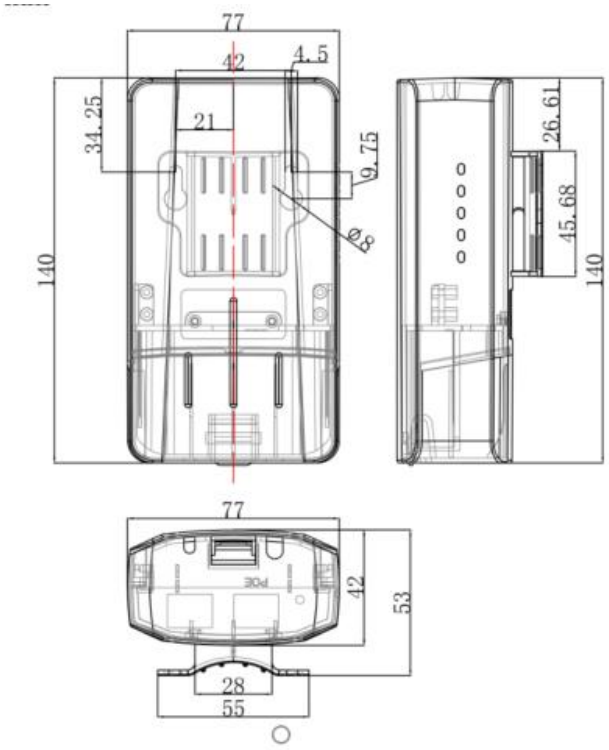


Fig.1 Dimension of ST208E

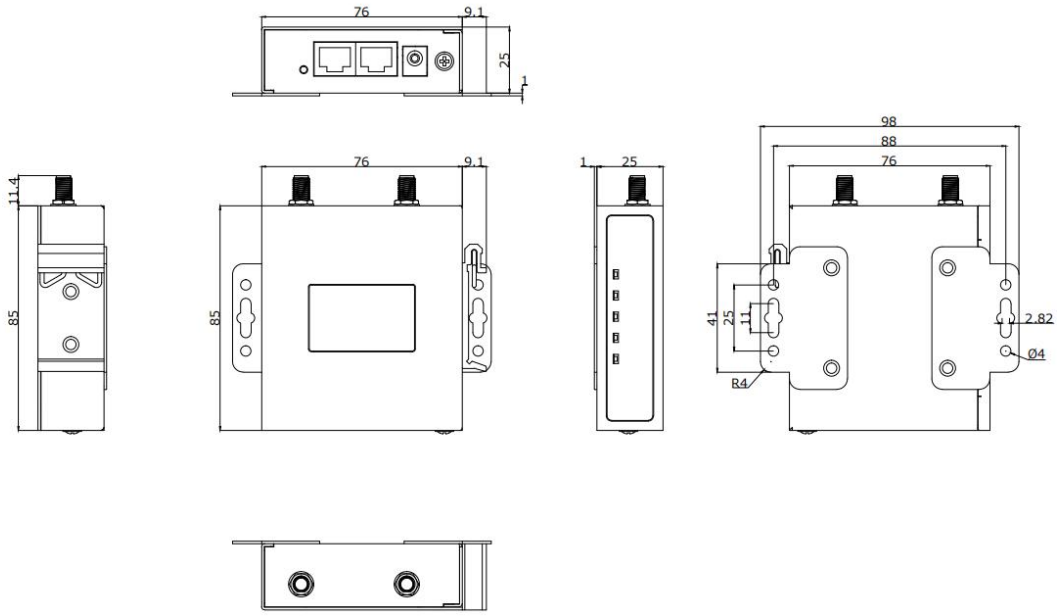


Fig.2 Dimension of ST208S

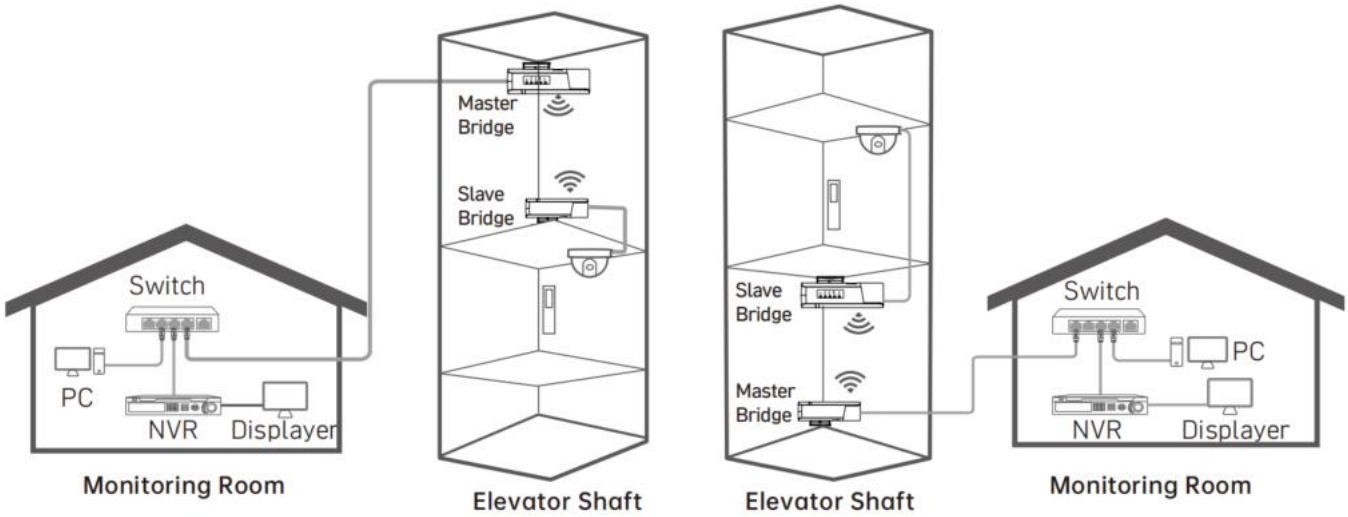
Specifications

Model	ST208E	ST208S
Description	Standard version	External antenna version
Input voltage	9 - 24 VDC, with PoE in and DC power socket	
Pilot lamp	POW、WORK、LAN1、LAN2、SIG	
Working Current	DC: 0.3A@12V aver, 0.4A@12V max POE：0.4A@12V aver, 0.55A@12V max	
Antennacoverage angle	Horizontal 60 °, vertical 30 °	omnidirectional antenna
Wi-Fi		
Wireless Standards	IEEE 802.11b/g/n	
Output Power	Up to 20 dBm	
Antenna gain	Internal Antenna:8dBi ; External antenna:5dBi	
Channel bandwidth	20/40Mhz	
MIMO	2*2	
Max rate	300Mbps	
Coverage Distance		
Max coverage of WiFi	300 meters (Note:300M is the distance measured in a non-interference environment, and the actual measurement shall prevail)	
Ethernet Cable	100 meters (Note:The transmission distance is related to the quality of the network cable, and the actual measurement shall prevail)	
Ethernet		
Ethernet	2*RJ45, 10/100M, LAN 2 supports PoE in	
Software		

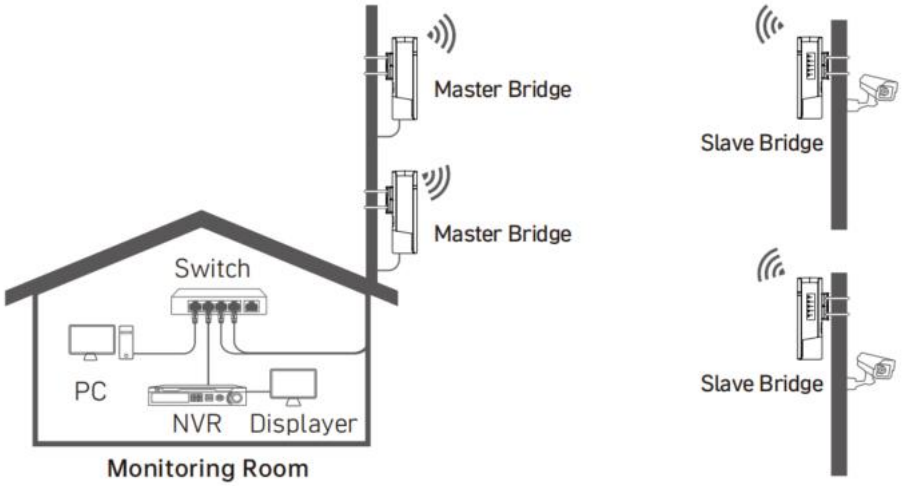
Work Mode	Two paired parameters in one packaging box	
LAN settings	Static IP, dynamically obtained	
Wireless settings	802.11b/g/n mode; The encryption method can choose WPA/WPA2; SSID broadcast/hide; bandwidth selection; transmit power setting	
Manage	System logs; WEB login; Unified management of DM cloud platform; SSH tool	
System Tools	Ping/Traceroute/Nsloukup tool	
Other	Password modification; Firmware upgrade; Parameter import/export; Restore to factory;Scheduled restart	
Physical Parameters		
Dimension	140.7*77.39*53mm	85*76*25mm
Weight	144.4g	217.3g
Installation	Pole Mounting, wall mounting	Wall Mounting, DIN rail mounting
Shell	IP64 waterproof	Sheet metal shell
Reload	Press and hold the reload button for 5-15 seconds to release and restore to factory settings	
Operating Temperature	-40°C ~ +70°C	
Operating Humidity	10 ~ 95 %(non-condensing)	

Typical Application

- **Elevator Control Application**



- **Factory/Community Application**



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