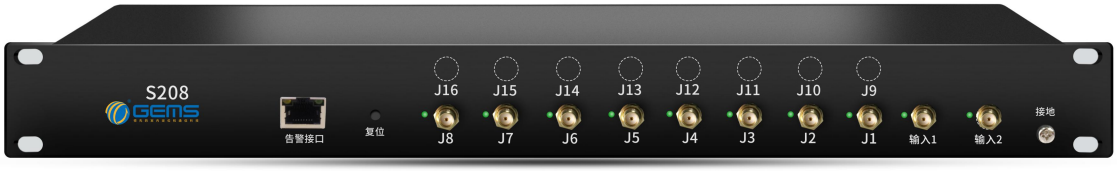
# Passive GPS/GNSS Distributions System

# S208/S212/S216




## Introduction

**S2xx is a passive RF tap system that supports 2-way GNSS antenna access and outputs 8/12/16 way RF signals. The system does not need external power supply, the system obtains power through the device accessed by the input port, the usual GNSS receiver such as BBU will provide a 5V voltage to the antenna, S208 obtains power from any one or more ports, as long as one port is accessed, the whole system can work.**

## Paramenters

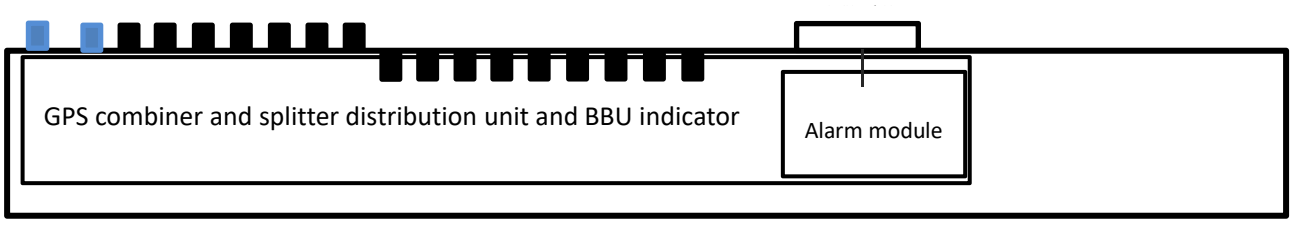
| Performance Index | |
|---|---|
| Frequency Range（MHz） | Standard band: 1557.5~1587.5 |
| | Wide band: 1150~1650 |
| Gain（dB） | 3±3dB |
| Noise Figure | <3 |
| VSWR | ≤1.5 dB (Standard band)<br>≤2.0 dB (Wide band) |
| Impedance（Ω） | 50 |
| Power | 0.75W |

| Physical Parameters | |
|---|---|
| Number of GNSS Antennas | 2 SMA-Female |
| Number of RF output ports | 8 SMA-Female |
| Input Voltage | Power can be supplied directly through BBU |
| Power Output via input ports | 5V/50mA |
| Overall dimension | 482.6mm ×77mm × 44 mm (D * W * H) |

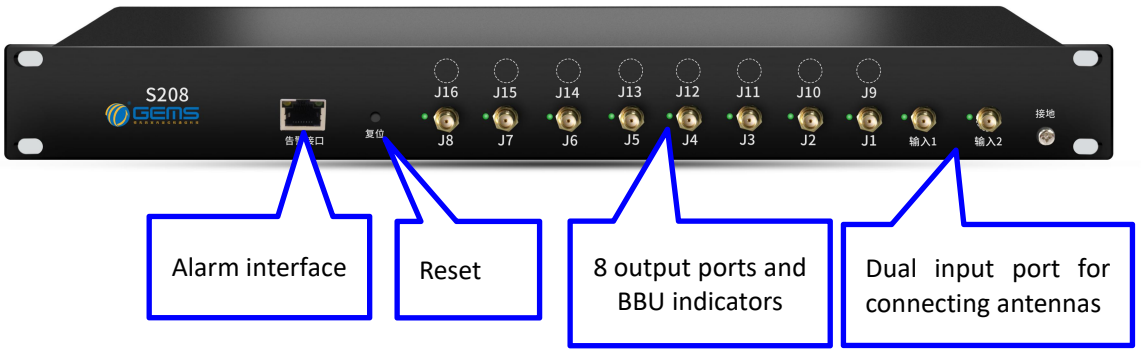
## Main advantages:

Shared GNSS antenna reduces the use of GNSS antennas and RF cables, saves space and reduces repetitive construction;

## Product block diagram and interface




## Interface Module:

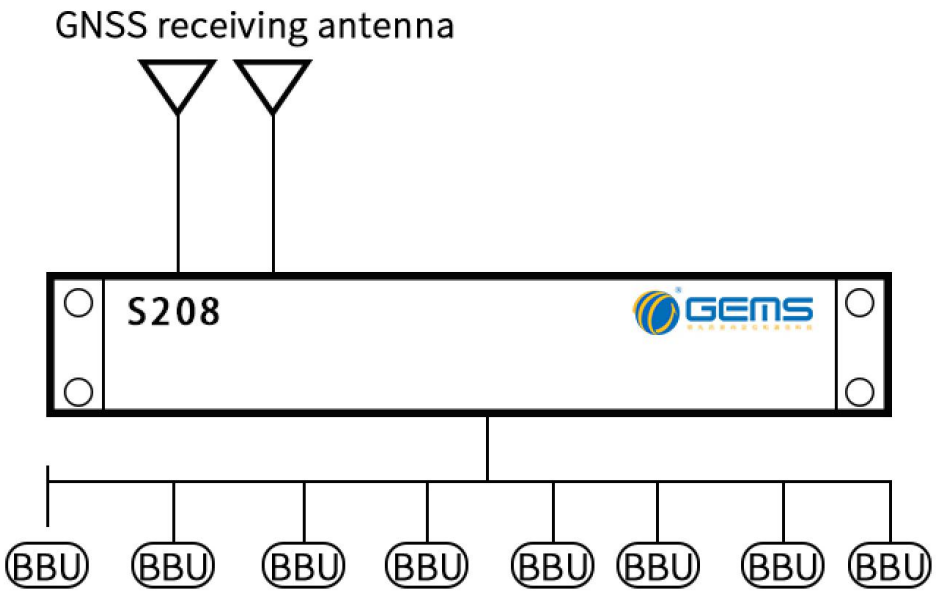



## Installation instructions:

1. **Fixed equipment: fix the side ears on both sides of the front end of the equipment on the equipment rack.**
2. **Connect to the master distribution system(iRGS208), powered by the BBU, with priority to 1 ~ 16 ports.**

3. **Connect the antenna, connect the antenna directly to two input ports and connect more than two BBUs to ensure power supply to the two antennas.**
4. **Connect the BBU to the output port of S208, the light above the port will be on and S208 will work normally.**
5. **After all the ports are connected, press and hold the reset button for 5 seconds to record the current connection status, and when a port is disconnected, there will be a dry contact alarm output, and press the reset button again for 5 seconds to record the new connection status, and the alarm will be canceled. If any input port fails, press the reset button for 1 second to eliminate the alarm; if all input ports fail, the dry contact alarm will not be eliminated, and the alarm will be eliminated only after restoring the connection of at least one of the input ports..**

## Typical application



## Product size

**Product size: 482.6mm ×77mm × 44 mm (D * W * H)**