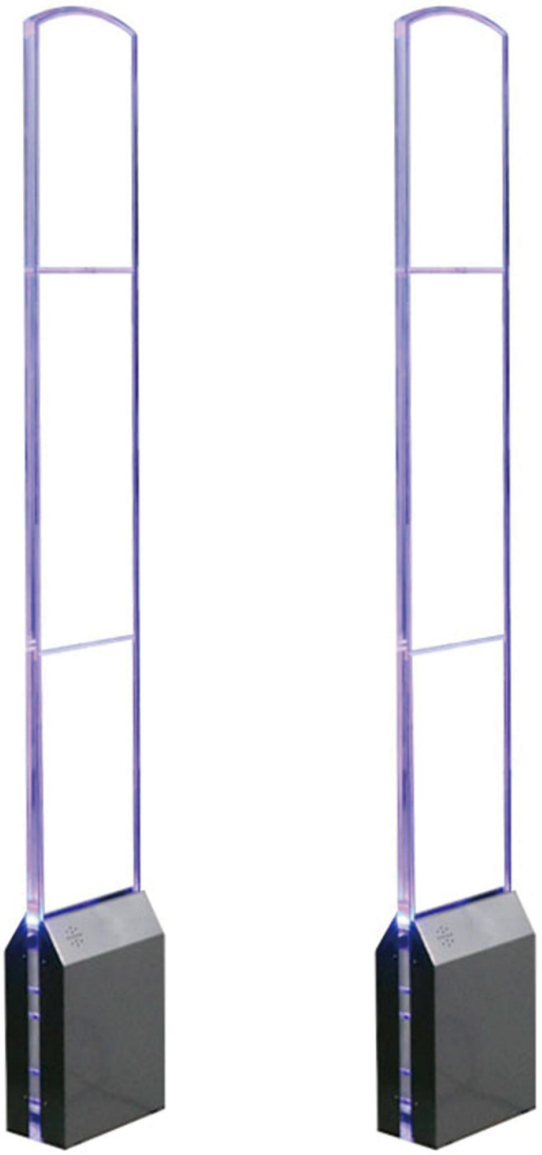
DRAGON GUARD

RS4006

Product manual







RS4006 main board features

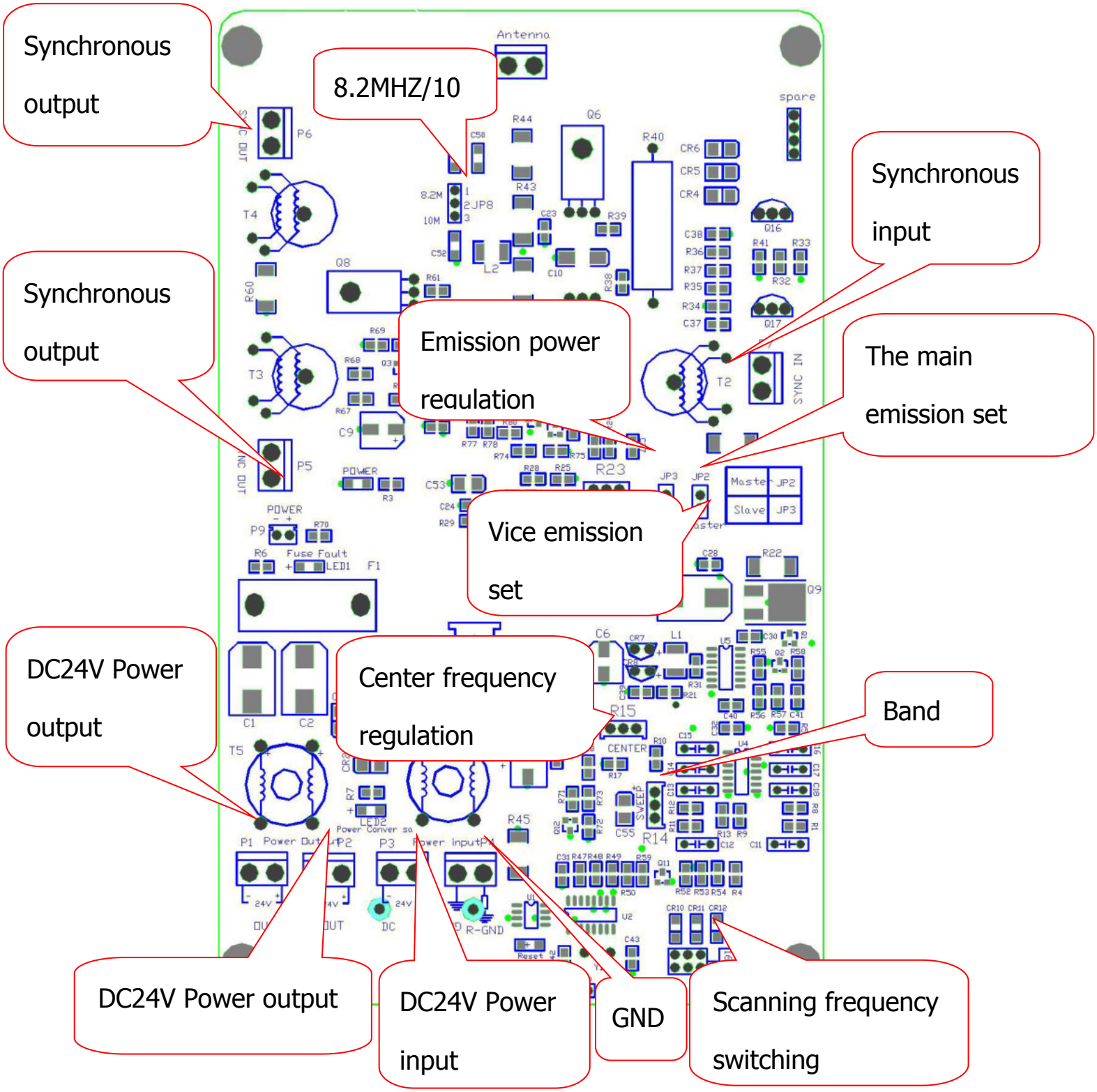
RS4006 main board in the original double rail antenna based on the matching of using new program filtering algorithm and strong PIC programming controller instead of the previous old micro controller program processing method, realize the stronger anti-interference and higher sensitivity, such as performance, but also with automatically ADAPTS to the environment function, in ordinary double rail on the basis of the antenna also has good performance. Its specific features below:

1. In the circuit design of the main part completely different processing mode.

the core part of the use of modern high-speed PIC controller, with the rigorous program filtering algorithm, realize the tag signal detection precision, can be in interference signal strength and label signal strength the same or even more than label effective signal interference under the condition of identify label signal, which is determined by the circuit and program design decision.

Emissionplateplan

Receiving main board schematic diagram





RS4006 main board features

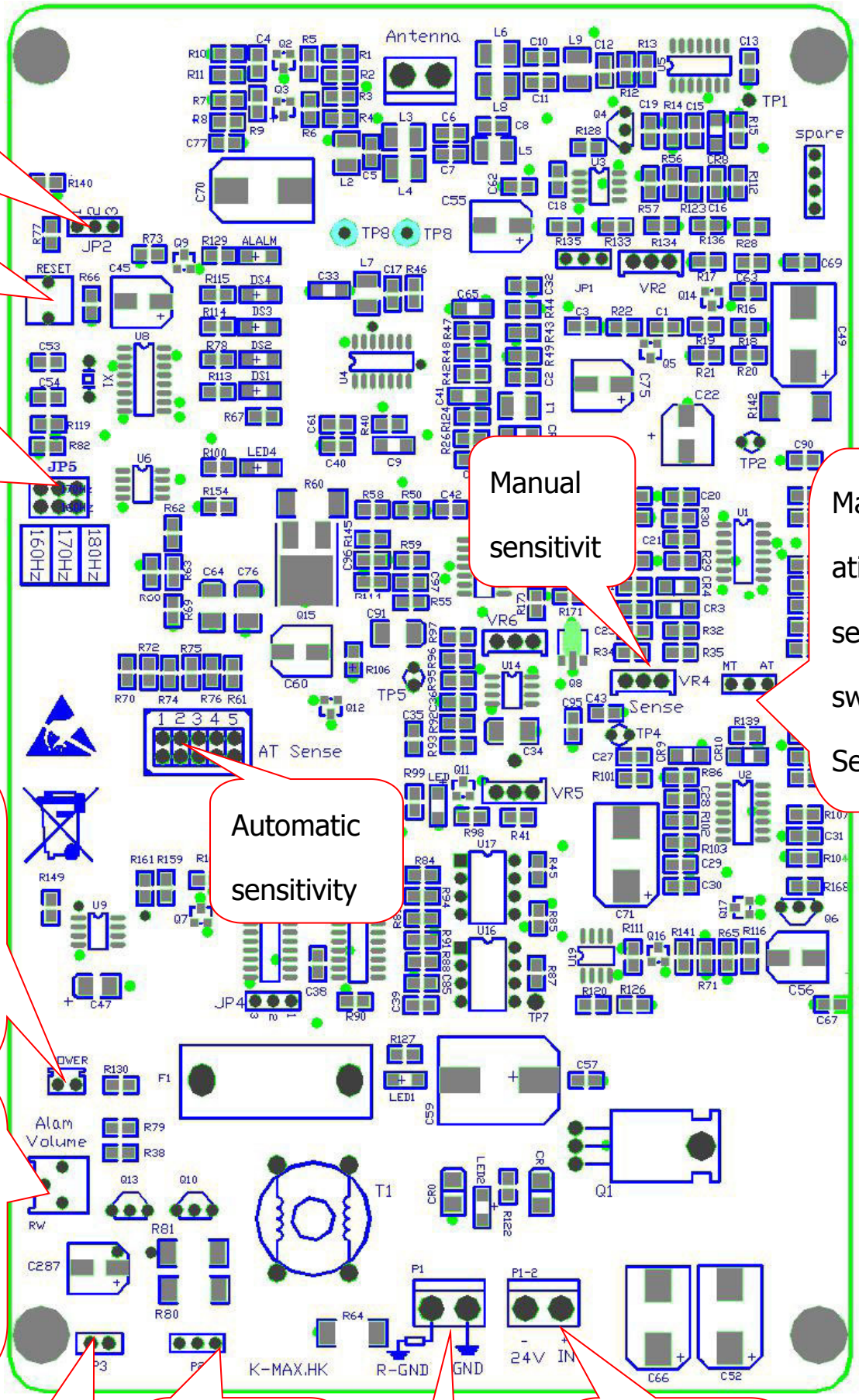
2. The data of frequency technology.

The transmission and receiving of the scanning frequency have been rigorous calculation and corresponding work, launch sweep even offset 0.1 Hz will make receiving cannot alarm, this design makes the existing other antenna with frequency interference, as long as the wrong frequency will not cause the problem of false positives, realized more close not online. Generally the location of the two sets of antenna distance separated by more than 3-5 meters can consider not online.

Advanced PWM pulse width modulation technology to realize the automatic control of sensitivity to gain a servo system.

Power supply box parameters

rated output dc voltage	24.0 V
rated output current	180 ma
rated input voltage	220 v
rated input power	30 va
output dc voltage	24.0 V



Alarm sound cut

Reset button

Scanning frequency switching

Manual sensitivit

Manual/automatic control sensitivity switch Settings

Automatic sensitivity

External power light interface

Alarm sound volume adjustmen

Buzzer interface

Alarm light interface

GND

DC24V Power input

RS4006 main board function

According to the interference in the will of interference signal acquisition and use of PWM wave to control the gain of the sensitivity level, make the sensitivity to the field interference real-time change, not only to be automatic adjustment to the best sensitivity state, and to the maximum avoid interference time interval, the greatest degree to avoid false positives. The 3820 plate and without human loaded down with trivial details adjustment sensitivity, only need to set sensitivity level or keep default state can, motherboard itself will automatically adjust, motherboard put up with, the special circumstances do not need to adjust or Settings.

If the antenna existing near the stillness of the label and cause alarm, system will be in a short time to adapt to and lock the tag signal, make normal into the detection area labels can still maximum be identified and can trigger the alarm.

RS4006 receiving motherboard debugging

1. The default state of X - 9 receiving motherboard, sensitivity has been set to automatic mode and automatic sensitivity level set to medium. Automatic mode (AT) and manual mode (MT) through the JP3 Settings, when JP3 is set to open AT as automatic sensitivity gain function, set to MT for manual sensitivity function, manual state can by adjusting the grey potentiometer VR4 change sensitivity. General installation is recommended for the automatic sensitivity, do not need to change this setting. (suggest using MT mode)

2. When the sensitivity for automatic mode, through the modification AT Sense to change sensitivity level, one,2,3,4,5 level sensitivity level, are low, low, medium, high, high sensitivity level. To change Settings, only need to jump line inserted into the corresponding digital can, all levels of sensitivity will still according to the environmental changes do automatic adjustment, level of modify Settings is automatic sensitivity threshold.

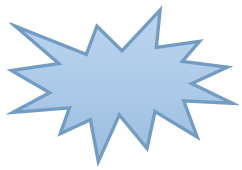
RS4006 receiving motherboard debugging

Debugging points: through the observation, DS1 DS2, DS3, DS4 to set the sensitivity level, there is no label after testing area, DS1 scintillation representatives have interference signal, DS2 (red) scintillation represent the class label signal interference or active interference. When interference reaches a certain level after, DS3 and DS4 scintillating. Set sensitivity level, the default in the secondary position 3, if found no label cases DS1 DS2 and a little flicker, can not modify Settings, if DS1 and DS2 scintillation frequently, even DS3 began to flicker, can put the sensitivity level set to 2 or 1. If the field no interference, four LED all don't blink, with the tag to test sensitivity levels also do not need to modify Settings. If there is no interference but feel sensitivity is too high can also be set lower sensitivity. Note: medium sensitivity level 3 is a relatively safe sensitivity level, can ensure that most of the environment can automatically avoid interference, and can achieve better detection state.

RS4006 receiving motherboard debugging

3. When installation involves many sets of equipment to synchronous, need to change some of the emission frequency sweep (wrong frequency), the change of the emission frequency sweep at the same time, also need to modify X - 9 receiving plate corresponding receive frequency. Through the modification of the plate to receive JP5 receiving and transmitting the sweep matching can, after the modification to press the RESET button to RESET, or power again electrify.

4. Change JP2 jumper wire can change alarm mode. When JP2 set in 1-2, alarm sound for intermittent mode. When JP2 set in 2-3, alarm mode for long ring mode. (alarm duration for 2 seconds)



Guard against theft system use the matters needing attention

1. Don't let other electric equipment Shared security system of independent power supply,

2. In the antenna 1.5 meters range don't put any security labels, otherwise it will cause great interference to antenna caused alarm.

3. In the antenna around 1.5 m range can not use or put electrical appliances, especially large electronics;

4. In the antenna around 1.5 m range cannot be placed large metal or metal frame;

5. Can't use wire will antenna connected together, don't put cart in the antenna midst;

6. Don't get on the antenna frame, can't let children climb antenna, prevent customer dash antenna;

7. Don't in the antenna around 1 m range use interphone, lest cause false positives

The lock device by strong magnetic materials manufacturing and become, strong magnetic, do not put it near the display!

8. The cashier will hard tags must be removed the tag recycling, storage place must be from security antenna 3 meters. Otherwise it will cause antenna misinformation. If the cashier's away from the antenna in 2 meters with tin deposit within.