

(Q1) Can ZT-2570 supports that many slave devices? 275x ZT-2055

Yes, ZT-2570 is a ZigBee Coordinator device which is able to coordinate 255 ZigBee Routers, such like ZT-2551, ZT-2571 and ZT-20xx devices.

(Q2) How many networks do you suggest to use? 2 or more?

ZigBee is defined as a low power and low data rate technology. If there are two or more ZigBee networks established in single RF Channel, the bandwidth will be shared and the performance will be reduced.

So, 16 ZigBee networks established on 16 RF Channel is the best case in an idea environment. (Idea environment means if there is not any serious interference)

(Q3) Can ZT-2055 works as a repeater so that Zigbee signal can be broadcast?

Yes, ZT-2055 is a ZigBee Router, so it always relay data.

(Q4) Can ZT modules work at the distance/area , refer to second pictures?

Yes, there are many ZigBee Router/repeater so I think it would be good in this range.

(Q5) Do they need any external antenna?

I think there is no need to use external antennas at first stage.

We provide ZT-2000 Topology Utility to detect the status of ZigBee networks. Through by using the Topology Utility, you will know every ZigBee node's information, such as connection relationship and the signal quality. This information would be helpful to improve the ZigBee network.

Maybe you can setup the ZT devices in office to confirm the device's settings correct via using ZT Topology Utility. Once the setting be done and verify them working correctly, then you can install them to your application site and verify again. If there is any ZigBee node working badly, then you can consider to configure the RF Power higher, even to use external antenna.



<Note>

If the ZT device is installed in the enclosure, maybe an extension cable you will need to put the antenna outside. If you need, please refer the 3S00x-1 cables as following links

http://www.icpdas.com/root/product/solutions/accessories/cable/cable_selection.html

Extension Cable → Turn RF Power higher (Software configuration) → External Antenna



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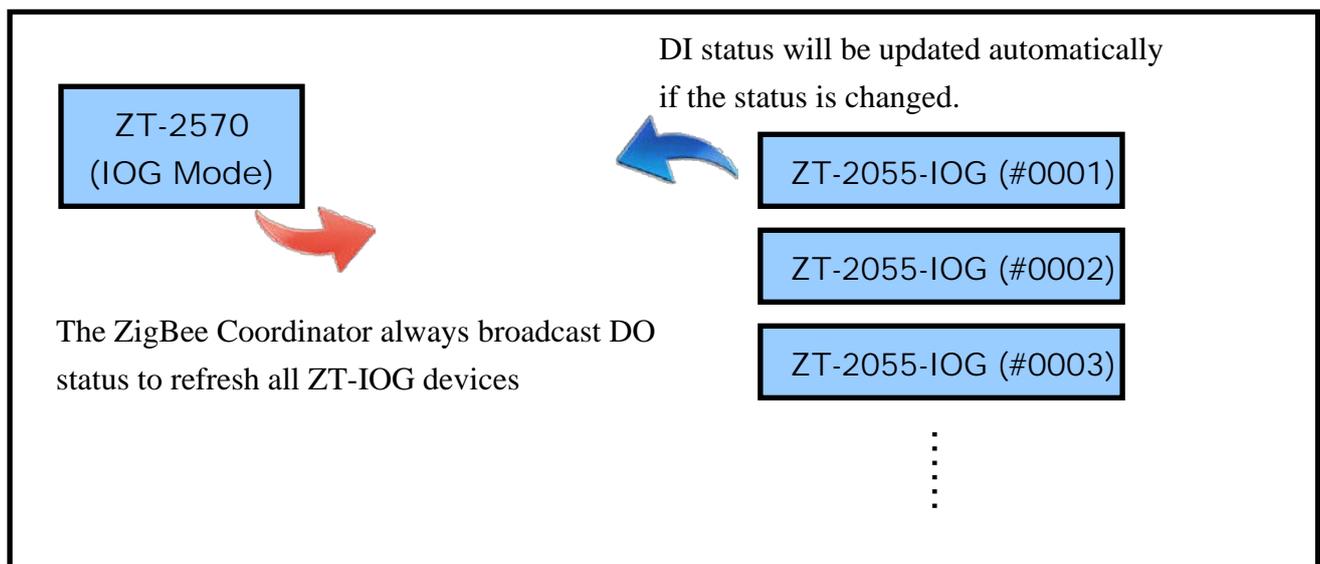
(Q6) Any other suggestion to the solution

ZigBee is defined as a low power and low data rate technology and Modbus is a question-response protocol (half duplex). So the polling cycle time will be very long, I'm not sure how long time you can accept?

E.g. If it take 0.5 second to read DI from ZT-2055, the polling cycle will be up to 1 to 2 minutes. Can you accept that?

(Q7) Let me know if you have questions

We have another solution ZT-IOG series products, maybe you can refer as below.



Example :

