

## IOT Machine Controller RS-CTR



This product is a data signal acquisition and control device in the IOT area, which is used for collecting sensor signals in the area and controlled equipment such as lighting, forced-draught fan and water pump in the control

area. It has the features of AD Hoc network, self-recovery from network disconnection, self-selection of optimal network path, self-rehabilitation from link failure, and supports hibernation and wake up. The product is made of aluminum alloy material, with waterproof and moisture-proof measures, so that it is suitable for the complex scene with harsh environment or strong interference, such as underground pipe gallery, tunnel, mine, factory, etc. It has the features of AD Hoc network, self-rehabilitation from link failure, so that it has the ability to adapt to various complex environments. It has DI, DO, AI, and RS485 ports, and can adapt to the existing various controlled devices in the market.

### **Product parameters:**

Frequency range: 2405-2480MHz

Working voltage: 24 V DC

Transmitted power: +20dBm

Receiving sensitivity: -103dBm

Transmission rate: 250kbps

Analog input: 4~20mA\*2

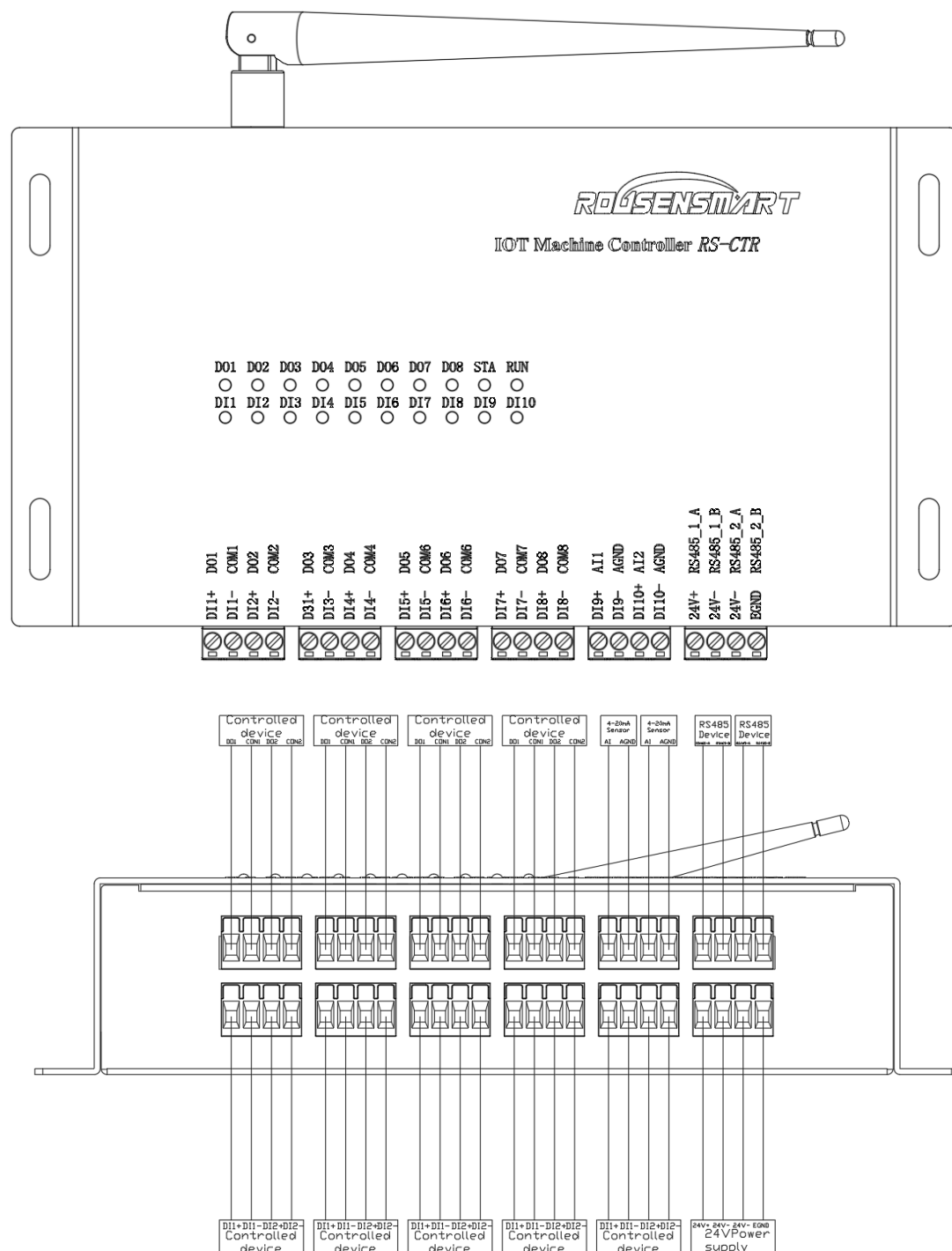
Serial interface: RS485\*2

Digital input: DI\*10

Digital output: DO\*8

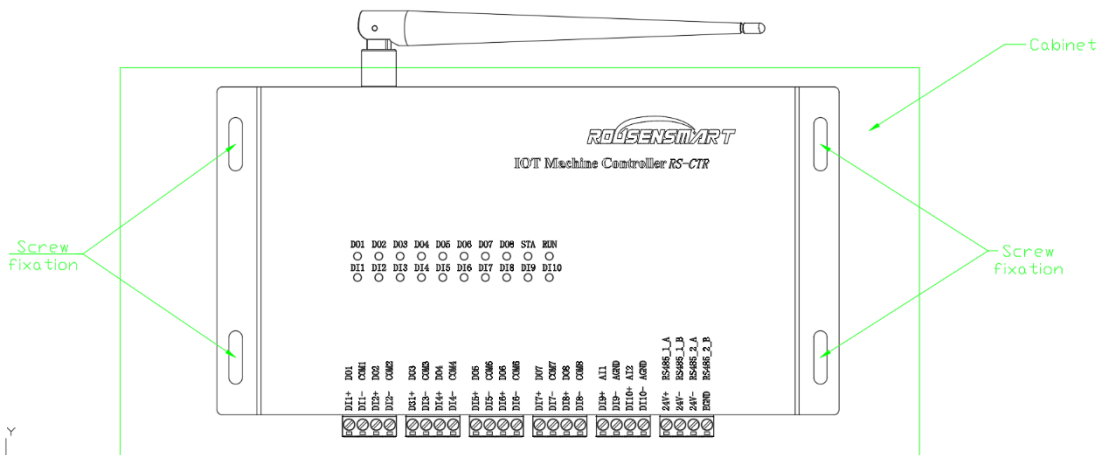
Antenna gain: 4.12dBi

The connection mode is shown in the figure below:



Install close to the cabinet

During installation, first attach the controller to the backplane of the cabinet, and then fix it with screws. The control cabinet with good tightness and convenient subsequent wiring arrangements should be used. The control cabinet should be placed in an open, dry and non-corrosive liquid place to avoid damaging the equipment.



## FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and

used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body:  
Use only the supplied antenna.