

# **Single Phase HexNet**

**(MJN901)**

# **User Manual**

| Version | Maker    | Date       |
|---------|----------|------------|
| V0.0.1  | WangGang | 2017.01.20 |
|         |          |            |

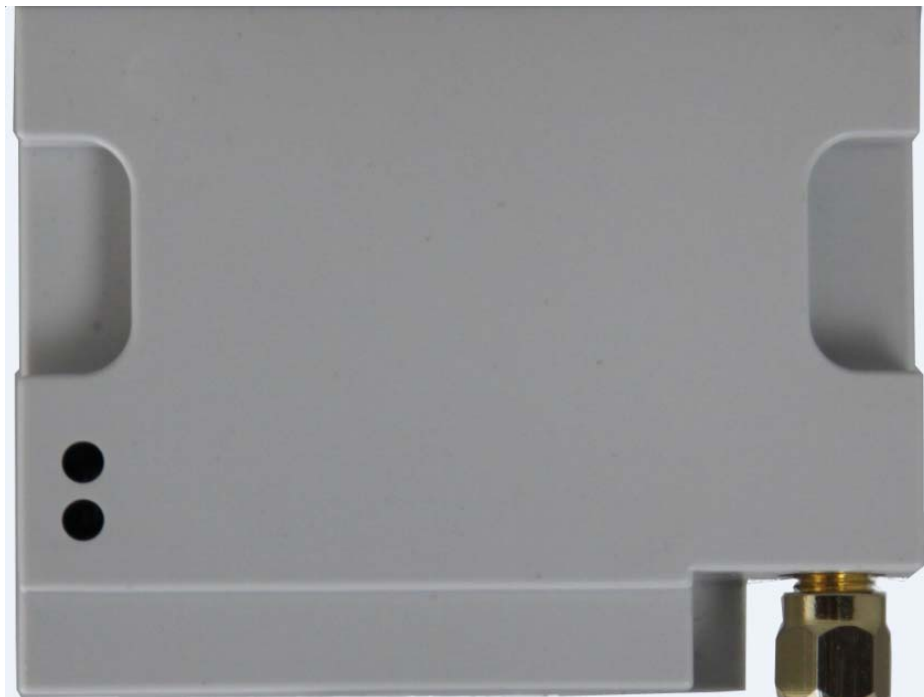
## Hexing Electrical Co.,Ltd.

### › › › Single Phase HexNet (MJN901)

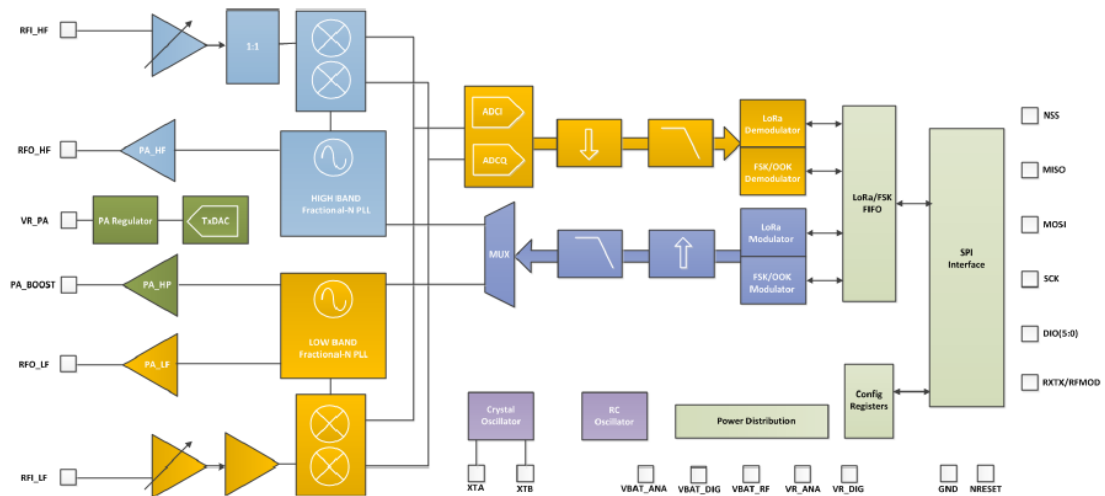
#### 1.Product Introduction

The Single Phase HexNet is a highly integrated half-duplex micropower wireless data transmission device. The Single Phase HexNet embedded high-performance RF chip. User programming has very good flexibility. This device operating frequency include 916.25-926.65MHz. The real figure as shown in the figure below.

This Single Phase HexNet is mainly used in power system, electricity information collection system. Mainly include the following equipments: Data Collector, Smart Electric Meter, etc.



## 2.RF Module Chip Block Diagram



## 3.RF Module Pin Definition

| Pin number | Signal name | Signal category   | Signal direction |
|------------|-------------|-------------------|------------------|
| 1,2        | VCC         | Power             | I                |
| 3,4        | VCC         | Power             | I                |
| 5          | TXD         | Uart transmit Pin | O                |
| 6          | RXD         | Uart receive Pin  | I                |
| 7          | D3.3V       | Power             | O                |
| 8          | /RST        | RESET Pin         | I                |
| 9          | /           |                   | N                |

## 5. RF operation

Insert the HexNet on user's device, can use uart to communicate with HexNet device. User don't change anything of the device, they will very easy to set up their communication network.

## 6. Installation instructions

1) Please insert MJN901 on the corresponding interface, and ensure the pin interface definitions are consistent with MJN901.

2) Interfaces are defined as follows:

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 3 | 5 | 7 | 9 |
| 2 | 4 | 6 | 8 |   |

PIN

| PIN | Interface definition | Signal category | Direction | Description                                                                                                                                                                                                                         |
|-----|----------------------|-----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,2 | VCC                  | Power           |           | Communication module analog part of the power supply, voltage is 5 v to 15 V.                                                                                                                                                       |
| 3,4 | GND                  | GND             |           | GND                                                                                                                                                                                                                                 |
| 5   | TXD                  | Signal          | O         | Communication module data (TTL3.3 V level), serial port communicating with the base table.Send from module                                                                                                                          |
| 6   | RXD                  | Signal          | I         | Communication module data reception (3.3 V TTL level), serial port communicating with the base table.Receive to module                                                                                                              |
| 7   | D3.3V                | Power           |           | Power provided by the module, communication module of digital part of power, voltage of 3.3 V + / - 5%, the minimum current 50 ma, with VCC power supply, the isolation optical coupling used to drive the communication interface. |
| 8   | /RST                 | Reset           | I         | Reset module (low level effectively, effective level time 100 milliseconds)                                                                                                                                                         |
| 9   | /                    | /               | /         | Reserved                                                                                                                                                                                                                            |

- 3) Equipment flip cover and seal
- 4) Terminal equipment using the lid well
- 5) Provide equipment machine right alternating current (AC) on the site
- 6) Equipment terminal cover screw to play well, and make seal



Installed in the sample



Installed in the sample



Installed in the sample

Electric meter models only for reference.

## Note:

1 Thank you for using products of Hexing Electrical Co., Ltd. Please read this warning before using our products. If you have already started to use is that you have read and accept our all this.

2 All the final explanation and modification rights for all materials were reserved by Hexing Electrical Co., Ltd.

**FCC Warning:**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

**FCC Radiation Exposure Statement:**

To satisfy FCC RF Exposure requirements for this transmission device, a separation distance of 20cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.