



## ZigBee wireless data transmission equipment (iDM-PA Series)

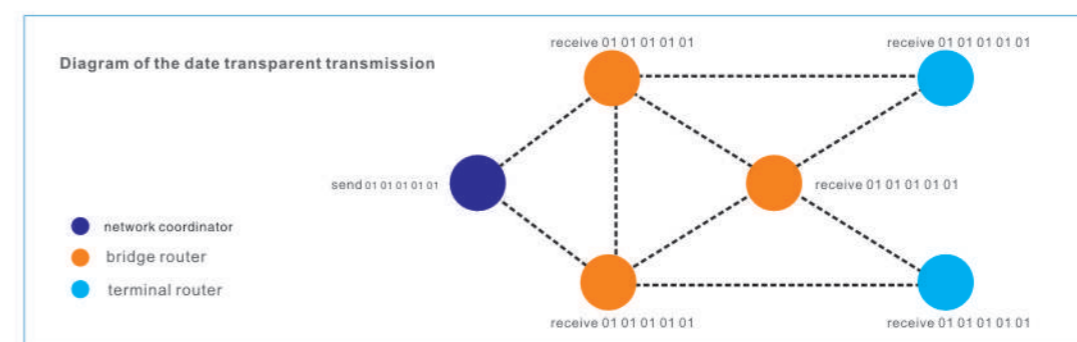
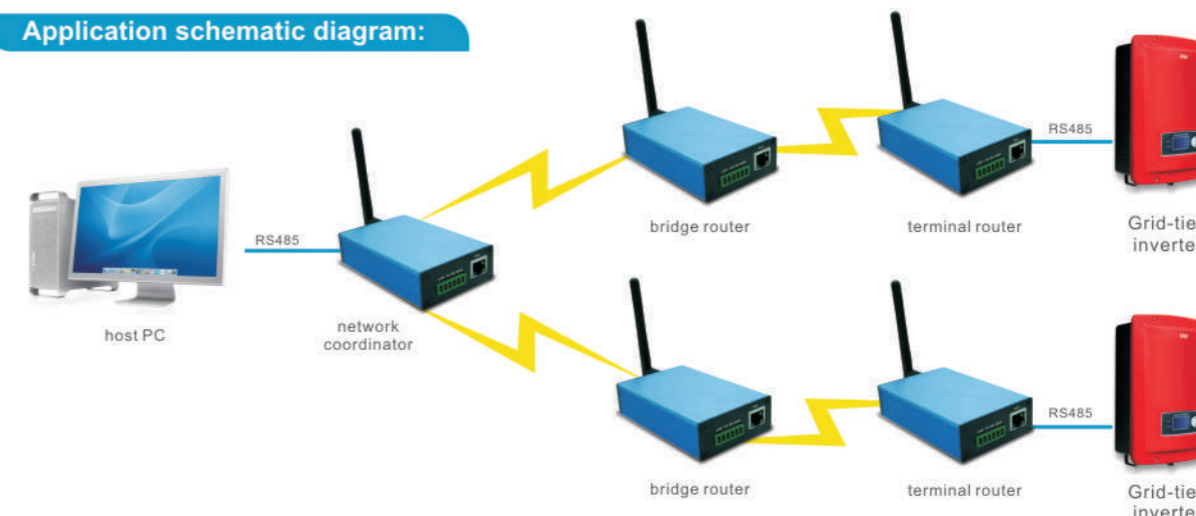
### Product Introduction

The traditional method of monitoring equipment is through wired communication, but the disadvantage of which is complex wiring and limited transmission distance. Our wireless monitoring solution, ZigBee network center receives commands via RS485 or RS232 data frame from the host machine, and then through the way of multicast pass command data frame of the individual ZigBee collector of ZigBee wireless network, finally passes the data to the terminal by RS485 and RS232 port terminal equipment. Each data frame ZigBee collector will transfer the data to the ZigBee network node which comes from its RS485 or RS232 port, through point to point mode, the central node returns the data to the host computer through the RS485 or RS232. ZigBee wireless communication technology is introduced into the application of the monitoring system to realize wireless data acquisition and to a certain extent solve the problem of wiring difficulty and poor adaptability of cable system.

### Product Features

- Realization of transparent transmission, easy operation, simple configuration, stable transmission
- Support network and CAN communication mode, standard network interface with RS485, RS232, is RJ45
- There are two output forms for serial communication interface (RS485 + CAN or only RS232)
- Working state indicating led can directly reflect the power supply, communication, failure of ZigBee wireless data transmission equipment
- Support all ZigBee communication channel, the transmitted power can be set up
- Support parameter settings, page setup, remote upgrade, of MODBUS RS485, TCP/IP mode etc

### Application schematic diagram:



### Technical Data

Model	IDM-PA15E	IDM-PA25E	IDM-DC
Name	ZigBee wireless data transmission equipment	ZigBee wireless data transmission equipment	ZigBee wireless data acquisition equipment
Communication Interface	RS232, RJ45	RS485, RJ45	RS485, RJ45
Transmit Power		18dBm (settable)	
Receiver Sensitivity		-97dBm	
Wireless frequency		2.4GHz ISM Global free band	
Band		2405-2480MHz	
Number of channels		16	
The maximum packet		99 Byte	
Transmission Distance		550m (No obstruction)	
Network topology		Mesh network	
Network interface		10/100Mbps adaptive fast Ethernet	
Network ID		65535 can be specified	
Serial interface		RS232/RS485, asynchronous, half duplex	
Serial port baud rate		2400bps 115200bps, (settable)	
Protocol format		Support MODBUS RTU mode	
LED indicator		Yellow LED Green LED Red LED	
Input power (DC)		8V-15V	
Peak current		160mA	
Power consumption		Maximum 1.8W	
Operating environment		Temperature:0°C-70°C, Environmental relative humidity: 10~ 80%	
Software Upgrade		Support network upgrade, serial port upgrade	
Product size and packaging		Long 100mm; Wide 66mm; High 27mm;	
Products include (built-in)		1 x 2.4 GHz short antenna; Vehicle sucker antenna (optional); 1x power adapter;	