

Wireless Data Acquisition Products

2. ZIGBEE Wireless Data Acquisition Modules



ZIGBEE-1080 (Server)

* Transmission Distance:

Normal Type: Indoor: <30m, Outdoor: <100 m Strengthen Type: Indoor: <100m, Outdoor: <1000 m

- Supports up to 6-hop
- ※ Increase the network coverage up to 6km
- Data Transfer:

AT mode: transparent transmission, only applies to two-plane couplet API mode: the data which RF transmits and receives are transferred into the API function (default)

- * Transmission Mode: radio to send or destination address to send mode (default) optional
- Node Type: Central node (coordinator), routing nodes
- * Networking Capabilities: star network, tree network, chain-type network, Mesh network
- × 16-channel automatic, 254 network ID arbitrarily setting
- * With an RS-232/485 interface
- Multi-reliable hardware and software design, watchdog technology enables safe operation of equipment
- * Power Consumption:

Send Current: General: <50mA; Enhanced: <295mA Idle/Receive Current: General: <20mA; Enhanced: <35mA Sleep Current: <100uA (only the terminal nodes support the hibernation feature)

- Power Supply: 10VDC ~30VDCOperating Temperature: -20°C~+70°C
- ※ Operating Humidity: 5%~90%



ZIGBEE-1081

※ Core Modules:

32-bit RISC processor, Master Frequency 66MHZ 2MB NorFlash, 512KB SRAM)

- * An external RTC can be calibrated
- * Hardware watchdog to ensure the reliable operation of the system
- * Support CF card, storage, and it is convenient to transfer data
- * 2 LED lights (power supply: red, status: green)
- * 240*320 monochrome LCD, human-computer display device (optional)
- * 4-wire resistive touch screen, man-machine interface (optional)
- ※ 16-channel analog input
- ※ Voltage Range: 0~5V, 0~10V, ±2.5V, ±5V, ±10V (isolation)
- ※ 12-bit 8-channel analog output
- * 16-channel dry contact input
- ※ 16-channel relay output
- System Power Supply: +9V~+30V/200mA;
- ※ Operating Temperature: -40°C~+80°C (without LCD screen)
 0°C~+70°C (with LCD screen)



ZIGBEE-1080A

※ Transmission Distance:

Normal Type: Indoor: <30m, Outdoor: <100 m Strengthen Type: Indoor: <100m, Outdoor: <1000 m

- X Supports up to 6-hop
- Can increase the network coverage to 6km
- Transparent Transmission: the data which RF receives will be converted into RS-485/232 output
- * Transmission Mode: radio to send or destination address to send mode (default) optional
- Wode Type: Central node (coordinator), routing nodes
- X Networking Capabilities: star network, tree network, chain-type network, Mesh network
- ¾ 16-channel automatic, 254 network ID arbitrarily setting
- ※ Support disconnection reconnection function
- With RS-485/232 interface, can choose by DIP switch, the two can only choose one
- Multi-reliable hardware and software design, watchdog technology enables safe operation of equipment
- ※ Power Consumption:

Send Current: General: <50mA; Enhanced: <295mA Idle/Receive Current: General: <20mA; Enhanced: <35mA

Sleep Current: <100uA (only the terminal nodes support the hibernation feature)

- ※ Power Supply: 10VDC ~30VDC
- Operating Temperature: -20℃~+70℃
- ※ Operating Humidity: 5%~90%



ZIGBEE-1082

- ※ Input Type: Thermocouple, J, K, T, E, R, S, B, N, and WRe5-WRe26
- Channels: 8-channel differential input
- Sample Rate: 10Hz
- Resolution: 16-bit
- Input Impedance: 20MΩ
- € Full-span Drift: 25ppm/°C
- ※ Isolation Voltage: 3000V
- ※ Built-in Watchdog
- Power Supply: +10VDC~+30VDC
- Power Consumption: 0.6W@24VDC