# WZB-D03/ WZB-03CB
# ZigBee Wireless Module

## Features & Benefits

- Simple Plug and Play into a variety of systems, particularly applicable for devices using DIO protocol for ease of integration.
- ZigBee Wireless connectivity made easy minimizing development costs and time.
- Expanded functionality when used in conjunction with other Nietzsche ZigBee coordinators, routers, and network devices for broader networking applications.
- Auto-repair & auto reconnection for connection stability & integrity.
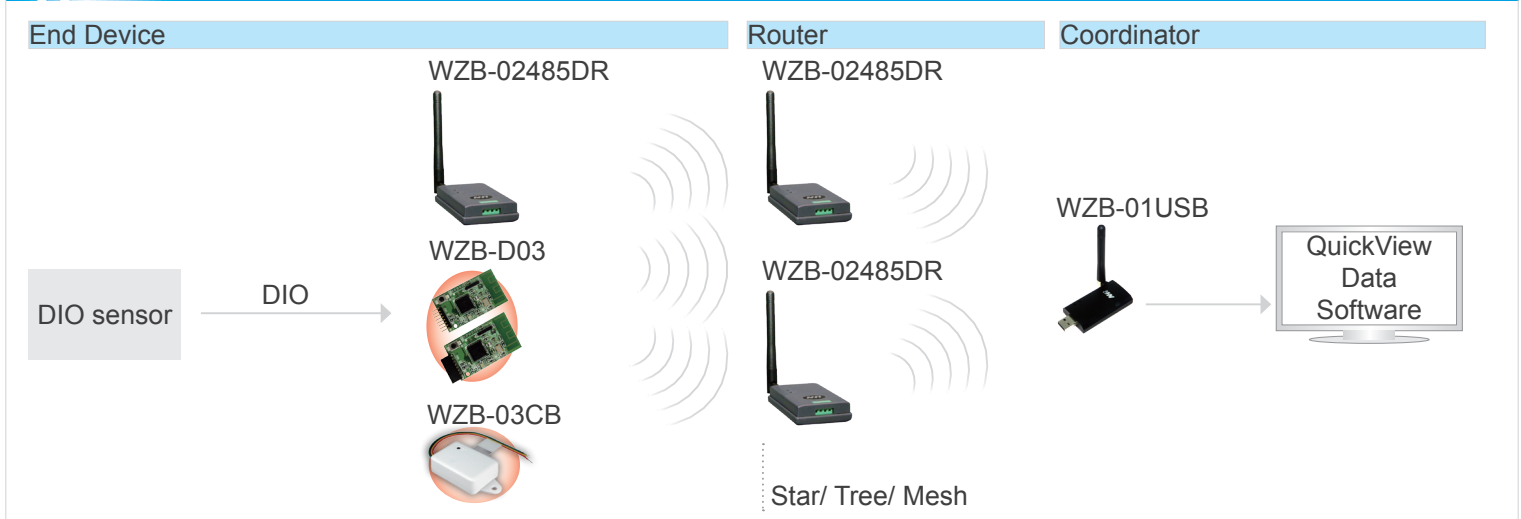
The WZB-D03/ WZB-03CB ZigBee modules' compact design allows for simple Plug and Play integration into a variety of systems, and is particularly applicable for devices using DIO protocol. Simply add the WZB-D03 ZigBee module to an existing device provides ZigBee Wireless connectivity. Integrating with Nietzsche's WZB-01USBC USB coordinator or WZB-02485DR router provides a simple solution for building IEEE 802.15.4 compatible ZigBee Wireless networks lowering R&D costs and greatly reducing development schedules. Paired with Nietzsche's WZB-05ET ZigBee transceiver to Ethernet converter provides internet connectivity for a variety of networking applications such as home automation, health care systems, smart buildings, industrial auto-control measurement and monitoring, and low power detection systems. The WZB-D03/WZB-03CB ZigBee modules' versatility makes them suitable for a wide range of uses minimizing development costs and time as well as broadening Wireless and internet networking capabilities.

## Specifications

| | WZB-D03 | WZB-03CB | | WZB-D03 | WZB-03CB |
|---|---|---|---|---|---|
| Wireless Protocol | Compliant IEEE 802.15.4., ZigBee2007/PRO | | Operating Environment | -10 ~ +50ºC, 90%RH. Max. | |
| Chip Set | TI ZigBee SoC IC CC2530F256, 256K Flash | | Power Consumption | 105mW | |
| Operating Frequency | 2.4GHz ISM Band | | Sleeping Mode | 3.4uA at 5V | 1.4µA at 3V |
| Channel | 16CH | | Network Topology | Star/ Tree/ Mesh | |
| Transmission Range | 50m (line of sight) | | Auto Reconnection | Automatically repair and reconnect | |
| Transmission Data Rate | 250kbps Max. | | Dimensions | 28.5(L)x16(W)x4.5(H) mm | 34(L)x23(W)x10(H) mm |
| Interface | Digital I/O | | | | |
| RF Output Power | 0dBm | | Weight | 1.2g | 9g |
| Receive Sensitivity | -92dBm | | Certifications | CE/ FCC | |
| Power Supply | 3 ~ 5V DC | CR2032, 3V Lithium Cell | | | |

## Application Solutions



End Device

WZB-02485DR

WZB-D03

DIO sensor → DIO → WZB-03CB

Router

WZB-02485DR

WZB-02485DR

Star/ Tree/ Mesh

Coordinator

WZB-01USB → QuickView Data Software

## Ordering Code & Accessories

| Solution | Ordering Code | Description | Solution | Ordering Code | Description |
|---|---|---|---|---|---|
| End Device | WZB-D03 | ZigBee Wireless module | Router | WZB-02485DR | ZigBee Wireless router (DIO only) |
| End Device | WZB-03CB | ZigBee Wireless, coin battery powerd, power saving ver. | Coordinator | WZB-01USB | ZigBee Wireless dongle |