

Z Series

ZigBee devices for wireless connection of analogue, discrete and serial signals

ZigBee & IEEE 802.15.4 - for wireless control of remote installations

The **IEEE 802.15.4** standard and **Zigbee** wireless technology are designed to meet the need for a low-cost, standard-based and flexible wireless network technology, offering reliability, compatibility, security and low power consumption, for control and monitoring applications with low to moderate data rates.

IEEE 802.15.4 is the underlying standard for building up of the newest wireless sensor networks.

Comicon offers Z series devices based on **IEEE 802.15.4** and **ZigBee** and designed to provide reliable and secure wireless transfer of analogue, discrete and serial signals.

Advantages of Z Series devices

- Get over rivers, roads, railways and other obstacles
- Easy and fast installation
- Reliable work inside and outside
- Low cost for installation and maintenance
- Flexible approach to building up of new and extending of already existing systems

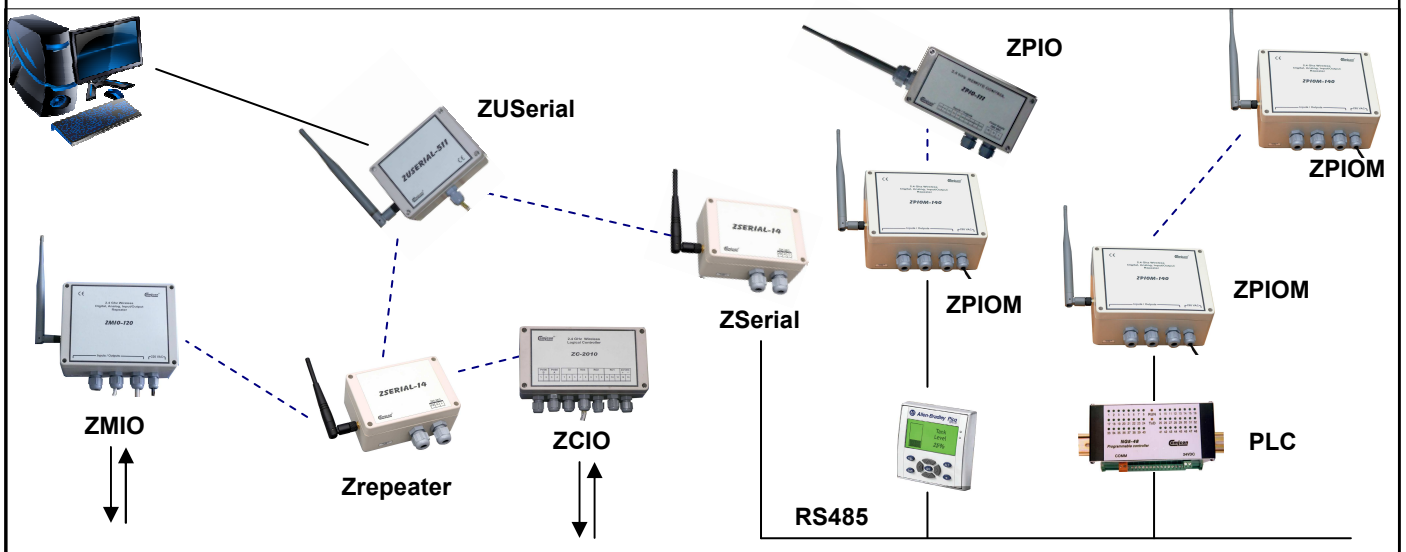
Technical features

The main function of each device from “Z Series” is automatic copying of its own analogue and discrete inputs on the remote device’s outputs and/or wireless connection of serial interfaces.

- Each device from “Z Series” can provide: discrete inputs - up to 8; discrete outputs - up to 8; analogue inputs - up to 2; analogue outputs - up to 2, serial interfaces - up to 2
- The “Z Series” includes devices with fixed I/O configurations and such with modular I/O configurations as well
- There are variants with “sleep mode” and battery power supply
- Working distance - from meters up to kilometers depending on the applied antenna. For long distances it is necessary to have line-of-sight condition
- “Z Series” devices work with popular antennas for wireless communication
- Frequency ISM 2.4 GHz (option 868 MHz), free license
- RF data rate – 250Kbps (2.4 GHz)
- IP65 protection against moisture and dust
- Working temperature: $-20^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Power supply: 220 VAC, 24 VDC or 12 VDC (sleeping - low consumption mode), 6VAC
- Highly reliable radiocommunication determined by standard IEEE 802.15.4, modulation QPSK and DSSS spectrum distribution

Code	Name	Description/ functions	Compatible with
ZSerial	Industrial radiomodem 2.4GHz with interfaces RS232, RS485, RS422	Wireless connection of network segments RS485, RS422 and devices with RS232.	ZSerial, ZUSerial, Zrepeater, ZPIOM
ZUSerial	Industrial radiomodem 2.4GHz with USB interface and virtual serial port	Radio channel connection via computer USB port with network segments RS485, RS422 and devices with RS232.	ZSerial, ZUSerial, Zrepeater, ZPIOM
Zrepeater	ZigBee repeater	Re-transfer between 2 terminal devices ZSerial or ZUSerial in case of problematic qualitative direct radio connection between them	ZSerial, ZUSerial, Zrepeater, ZPIOM
ZPIO	Wireless repeaters of analogue and discrete signals	Analogue and discrete outputs of the local ZPIO device accept automatically the condition of the correspondent inputs of the remote ZPIO. Each ZPIO device can be equipped with inputs and outputs. The inputs are ON/OFF, 0-20mA. Outputs are 24VDC, relay, 0-20mA, 0-10(5)V.	ZPIO, ZPIOM
ZPIOM	Modular wireless repeaters of analogue and discrete signals	Combine the function of ZPIO and ZSerial. The inputs-outputs are modules, installed on mother board depending on desired configuration	ZPIO, ZPIOM, ZSerial
ZCIO	ZigBee controller	Performs control functions as per embedded algorithm, support ZigBee communication	ZSerial, ZUSerial, Zrepeater, ZPIOM
ZMIO	Wireless remote Modbus input/ output module	Modbus RTU Slave devices with analogue and discrete inputs and outputs, which communicate with the serial interface of a master device, equipped with one of the interfaces USB, RS232, RS485, RS422	ZSerial, ZUSerial, Zrepeater, ZPIOM

APPLICATIONS



For additional information:

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