

ZG-2400E ZIGBEE™ ETHERNET GATEWAY

Allowing seamless integration of ZigBee networked sensors and devices into existing industrial networks, the ZG-2400E combines a 2.4GHz 100mW ZigBee module and a TCP/IP-to-ZigBee translation engine in a Class I Div 2 certified DIN-rail mount product. The ZG-2400E operates over a -40°C to +70°C temperature range and accepts a +9Vdc to +24Vdc supply voltage.



Mesh Networking. The ZG-2400E is built around Cirronet's ZMN2400 2.4GHz ZigBee module. The ZG-2400E functions as a ZigBee network coordinator as well as a takeout point for the ZigBee network. The ZG-2400E supports multiple levels of routers to create sophisticated mesh networks that are self-forming and self-healing.

Seamless Integration. The ZG-2400E fits into existing industrial automation networks by accepting Ethernet formatted ZigBee commands, stripping the Ethernet packetization, and sending the ZigBee commands and data to the appropriate ZigBee end device or router. The ZBWizard configuration tool is used to assign IP or port addresses to ZigBee end devices. A typical installation will find the ZG-2400E connected to an Ethernet network based industrial automation application. Instead of Ethernet wiring, the wireless ZigBee network will connect the various sensors and actuators to the application through the Ethernet gateway. Cirronet's companion family of ZN-2400 products are designed to operate as ZigBee signal conditioners/actuators for the remote devices.

OPC. Using the Cirronet-provided, industry standard OPC server, the ZG-2400E gateway connects seamlessly to any industrial automation application program with OPC support. All of the application specific commands, alarms and data are translated to the ZigBee format supported in the ZG-2400E in the OPC server.

Industrial Networking. The ZG-2400E is more than just a collection of parts with industrial temperature specifications. The components used in the ZG-2400E were carefully selected for the ability to operate in harsh industrial environments.

Let us be your experts. Cirronet has delivered high-performance wireless products since 1987. To find out how to put our experience to work for you, visit our website www.cirronet.com or call: **+1.678.684.2000**

FEATURES:

- FCC certified for unlicensed operation
- 2.4 GHz DSSS technology
- Small size, light weight
- ZigBee networking
- 100mW transmit
- Class I Div 2

BENEFITS:

- Deployable in wide range of industrial settings
- Fast acquisition time/exceptional range
- Supports large number of nodes
- Redundant, self healing network
- World-wide use
- Low cost



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An ISO 9001:2000 Certified Company

ZG-2400E SPECIFICATIONS

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RF Frequency	2400 - 2483.5 MHz
Spreading Method	Direct Sequence
Modulation	O-QPSK
Transmit Power	+18 dBm into 50 ohms / 100mW with provided dipole antenna
Receive Sensitivity	-94 dBm for 10^{-5} BER
RF Channels	16
RF Data Rate	250 Kbps
I/O	10/100BaseT Ethernet
Operating Voltage	+9Vdc - +50Vdc
Current Consumption	670mA@9Vdc
Operating Temperature	-40°C to +70°C

CONNECTORS

Ethernet	RJ-45
Antenna Connection	Reverse SMA
Power	Two Pin Screw Terminal

MECHANICAL

