

BZ-IOT-5000 CGW

SMART IOT CONTROLLER GATEWAY SERIES

Key Highlights

- Enabling purpose built integrated "IOT IN A BOX". Instantly connects Sensors via SCM module to local server/cloud.
- WiFi, BLE or other Low Energy Wireless protocol in the same system along with Integrated IOT Controller and Gateway for Secure Management and Monitoring
- Indoor/Outdoor Wireless based system with high data rate and penetration
- Simplicity, Cost-effectiveness and Integration redefined with best of breed. hardware modules and unifying software.
- End to End Solution: Glue Software enabling Instant Connectivity and Intelligent IOT Monitoring.
- EDGE ANALYTICS: Machine learning based Advanced Predictive Analysis (APA) at the edge.
- MQTT Support as an option

Major Components

- High performance wireless Access and Controller system
- Ethernet, WiFi, 3G/4G
- 48V POE
- Blue Glue Unifying software
- Built-in edge Appliance
- Multiple Radio options



Product Description

BZ-IOT-5000 Controller Gateway (CGW) is a highly integrated system comprising of High Performance Wireless Access System and Integrated IOT Edge Monitoring and Gateway Appliance. It enables connectivity of sensors via SCM module to local server or cloud . It is an Industrial Grade High Performance Gateway System with the option of adding BLE, 4G and LoRa modules as well as high performance edge device.

BZ-IOT-5000 PLUS CGW version comes with a built in Edge Appliance for local monitoring of IOT devices.

BZ-IOT-5000 CGW series is embedded with powerful core IOT Controller and BZ SMART IOT Platform Software.

Typical Applications

- Factory IOT
- Campus Automation
- Healthcare IOT

PRODUCT	BRIEF DESCRIPTION
BZ-IOT-5000 -CGW -IN	Integrated IOT Core Controller Gateway with Wifi indoor enclosure
BZ-IOT-5000 -CGW -OUT	Integrated IOT Core Controller Gateway with Wifi outdoor enclosure
BZ-IOT-5000 PLUS-CGW	Integrated IOT Core Controller Gateway with Wifi and Edge Monitoring Device





BZ-IOT-5000 CGW

Product Specifications

Configuration

Part Numbers and variants BZ-IOT-5000-CGW Indoor,Outdoor and PLUS versions

Wireless Option

WiFi 802.11 BGN/AC

Cellular Backhaul 3G/4G

Low Power Options BLE, LoRa

Radio

Frequency Range 2.412- 2.484 GHz

Data Rate Physical data rate up to 300Mbps

Channel Bandwidth 20MHz, 20/40MHz, 40MHz

Duplex Technology TDD

Modulation OFDM

System Transmit Power (± 2 dB) HT20 - 11b/gmode 20dBm@MCS15,23dBm@MCS0

Receiver Sensitivity 11b/g- HT20-(-75dBm@MCS15), HT40(-71dBm@MCS15)

Integrated Antenna 14dBi

Network Interface

Interface type 1 x 10/100/1000 Mbps Ethernet Port Auto MDI/MDI-X support

Framing / Coding IEEE 802.3u

Flow Control IEEE 802.3x

Infrastructure Management

Security 64/128 bit WEP data encryption MAC address Filtering , MAC address filtering , WPA-EAP , WPA2- EAP , WPA - PSK , WPA2-PSK , 802.1x ,User Authentication , AES , SSID Broadcast Disable function , multiple SSID

Device Management Web server, Telnet/SSH, SNMP

Software Management Remote firmware up-gradation through Telnet/SSH

Wireless Configuration Access point, Station, Station WDS, Access Point WDS ,Repeater

Diagnostics Wireless Scanning

Electrical & Physical Specification

Power Feeding 48V Passive Power over Ethernet

Approximate Dimension L x W x H (Inches) 10.6" X 5.5" X 10.4"

Mounting Pole or Mast

Environmental Specification

Outdoor Unit Enclosure Weather proof casing

ODU Operating Temperature -20°C to 70°C (-4F to 158F)

Humidity Up to 95% (non-condensing)

Edge Appliance

Processor Quad core 1.2GHZ Broadcom BCM 2837 64bit CPU
x86 Option available

RAM and Memory 1GB and 64GB

IOT Controller Gateway

Monitoring Local/Cloud

Analytics Basic Trend Analytics/ Advanced Analytics

