



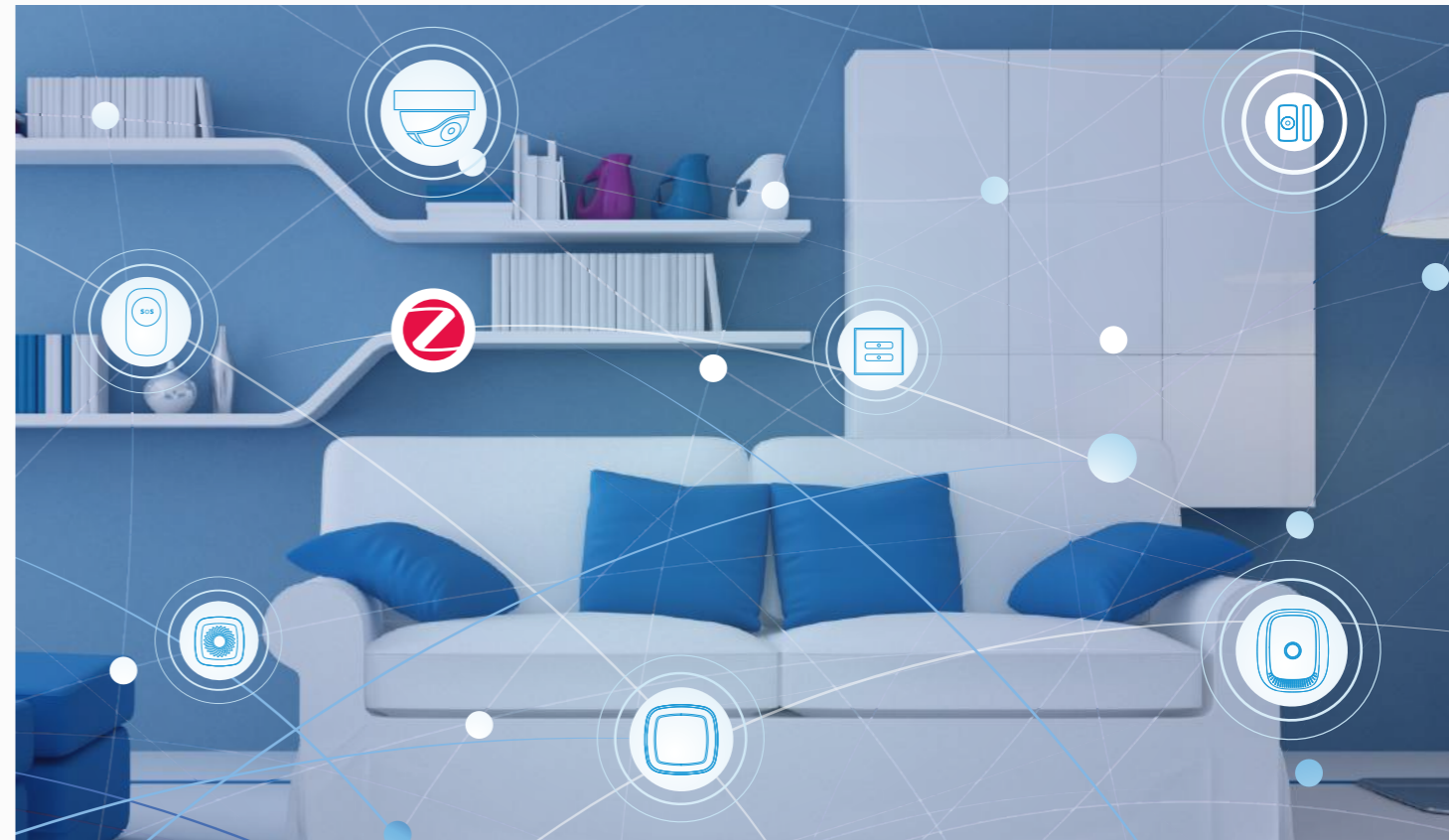
zigbee alliance member

FEIBIT ELECTRONIC TECHNOLOGY CO.,LTD

21th Floor, Building A, Golden Apple Innovation Park, No. 9 Ganli 2nd
Road, Buji Street, Longgang District, Shenzhen, China

Operator : 0086 755-28263320 Call : 400-018-1966

Mail : sales@feibit.com More : www.feibit.com



FBee[®] Inside

Smart Home United Factories of OEM & ODM

SMART HOME MODULES AND PRODUCTS CATALOG



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Shenzhen Feibit Electronic Technology Co., Ltd is established in 2010. We are a national high-tech enterprise and focus on low power wireless development and application promotion. As an international Zigbee Alliance member, Feibit provides product intelligence solution for hundreds of lighting, security, electronics, door lock and curtain manufacturers by offering international standard Zigbee module and gateway mid-ware, as well for hundreds of smart home cloud platforms and system integration clients.



We are building interoperative smart home products ecosystem based on **FBee** wireless module and chipset firmware, which is our original intention. Meanwhile, we collect excellent products from device partners who deploy our modules, and deliver to business partners of various user case. Thus, we together offer people an intelligent and creative life.



CORE ADVANTAGE



Senior developing experience in this industry

Feibit has Zigbee wireless technology experience for over 10 years, with incomparable strength in IoT smart home industry.

Zigbee standard certificate

As an international Zigbee Alliance member Feibit is the first one to achieve zigbee3.0 certificate in China.

Complete echo system in the industry

So far Feibit has hundreds of cooperating enterprises and tens of product suppliers, thus becoming complete IoT industry chain and developed smart home system.

Support multiple cloud development

Cooperates with big companies like Alibaba, Tencent , Huawei, Google , Amazon world widely to support multiple cloud development.

SYSTEM SOLUTION



SMART HOME SYSTEM SOLUTION

Smart home system combines automation and intelligence to bring clients an efficient, comfortable, safe and convenient home environment.

Hardware equipment:



Realized feature :

Movement monitoring, temp & humidity detection, fire precaution, one-key SOS, remote on/off control, one-key scene and camera monitoring.



SMART SECURITY SYSTEM SOLUTION

Smart security is to prohibit disasters, trigger alarm and report once fire and gas leaking, thus building a safe house shield.

Hardware equipment:



Realized feature :

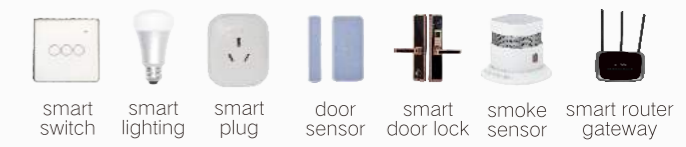
One-key SOS, fire precaution, gas and movement detection.



SMART APARTMENT SYSTEM SOLUTION

To make a safe, economy, fast and efficient smart apartment environment, and bring comfortable living experience.

Hardware equipment:



Realized feature :

Fire precaution, temp&humidity detection, anti-thief and timely on/off function.



SMART GATEWAY SERIES

Smart gateway is the key point for whole smart home system. It connects hundreds of various wireless devices to establish complete smart home system based on Zigbee technology so as to connect exterior internet, control remotely, upload and analyze data.

Smart Home Gateway

FGD87T0



As smart home core product, it supports all standard Zigbee and FBeetle Inside products to make them interoperate, also compliant to smart voice control such as Google home, Amazon Alexa, etc.

Specification

Working Voltage	DC 5V	Communication Protocol	zigbee
Frequency	2405~2480MHz	Receiving Sensibility	-97dBm
Communication Range	200m	Maximum Transmitting Power	20dBm
Current	200mA	Weight	150g
Dimension	110.5*81*26mm		



OTA



Data Encryption



Wireless Communication



Ultra-low Power Consumption

Smart Router Gateway

FGM87G1



Smart router gateway is the main controller for Zigbee smart home system. It centrally manages and controls all devices, self-networks and restores with high stability and WiFi router function.

Specification

Working Voltage	DC 9V	Communication Protocol	zigbee
Frequency	2405~2480MHz	Receiving Sensibility	-97dBm
Communication Range	200m	Wireless Transmitting Power	20dBm
Network Range	100m	Current	5W
Working Temperature	-25°C~+70°C	Dimension	210*150*31mm



Wireless communication



Support WIFI router



Ultra-low Power Consumption



Self-Network

USB Dongle Gateway

FGF87L3



It applies for Zigbee wireless communication technology, connect through USB interface, and provide driver plug-in and API manual for development based on Linux/Android/Windows.

Specification

Working Voltage	DC 5V	Communication Protocol	zigbee
Frequency	2405~2480MHz	Receiving Sensibility	-97dBm
Communication Range	600m	Wireless Transmitting Power	20dBm
Network Range	300m	Power	0.5W
Working Temperature	-25°C~+70°C	Dimension	90*26*12mm



Self-Network



Instantly Plugin To Use



Compact And Portable



Ultra-low Power Consumption

IR Blaster

NZIR104B-F2



It remotely control house appliances through infrared, can also join in smart home system based on Zigbee technology to link multiple scenes.

Specification

Working Voltage	DC 5V	Communication Protocol	zigbee
Frequency	2405~2480MHz	Receiving Sensibility	-97dBm
Communication Range	100m	Wireless Transmitting Power	4dBm
Accessible Network Range	50m	Power	0.75W
Working Temperature	-25°C~+70°C	Dimension	110*110*32mm



Ultra-low Power Consumption



Rich Code Library



Strong Compatibility



Support Learning Mode

SMART LIGHTING SERIES

Dimmable lighting is one of the important parts for smart home living. Devices automatically change light and color according to environment in order to create different atmosphere and save energy.

Lighting Remote

TZRC104W-H1

It supports to dim LED bulbs and color , group control all devices. One remote is all you need for all lightings.



Specification

Power	DC 3V	Communication Protocol	zigbee
Frequency	2405~2480MHz	Button	14 keys
Transmitting Power	0.06W	Standby Power	9μW
Control Range	> 20m	Battery	2*AAA
Working Temperature	-20°C~+60°C	Dimension	125*52*23.5mm



Ultra-low Power Consumption



Remote Control



Group Control



High Sensibility



CCT Light

TZCW808W-K1

It changes lighting color temperature in real time, and inter-operates with other standard Zigbee products.

Specification

Working Voltage	AC100-240V 50-60Hz	Communication Protocol	zigbee
Standby Power	≤0.5W	Irritation Angle	270 degree
Color Temperature	2700-6500K	Head Size	E27
Color Rendering Index	≥80	Dimension	150*95*70mm
PF	> 0.9	Net Weight	148g



Time Delay



APP Remote Control



CT Control



Energy Saving

RGBW Light

TZCW111W-H1

It changes lighting color and brightness in real time through APP based on different scenes, and inter-operates with standard Zigbee products .

Specification

Working Voltage	AC100-240V 50-60Hz	Communication Protocol	zigbee
Standby Power	≤0.5W	Maximum Power	7W
Color Temp	2700-6500K	Irritation Angle	270 degree
Life	25000 Hours	Dimension	150*95*70mm
Head Size	E27	Net Weight	148g



Time Delay



Color Temp Changing



APP Remote Control

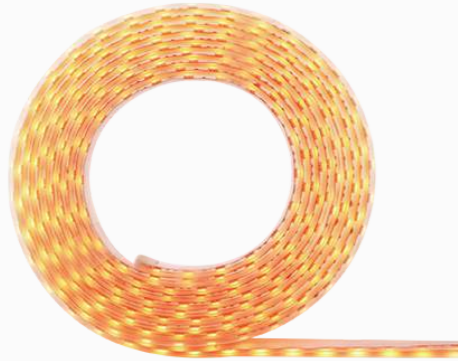


Color Modify

RGB LED Strip

TZCW020W-K2

It dims color based on changing environment, and remotely controlled through smart remoter or mobile APP.



Specification

Rated Voltage	DC 12V	Input Power	RGB 11W/M
Beaming Angle	120 °	Communication Chanel	2.4G
Accessible Communication Distance	100m	Accessible Networking Distance	50m
Receiving Sensibility	-97dBm	Protocol	Zigbee Light Link
Length	5m	Working Temperature Range	-10°C~+60°C



Color Temperature Adjusting



Color Adjusting



App Remote Control



Ultra-low Power Consumption

Smart Down Lamp

TZCW711W-H2

It support zigbee wireless technology, remote APP controlling and color temperature adjusting. Above that,, smart down lamp adjusts to scene environment.



Specification

Power Voltage	100-240Vac	Rated Power	7W
Dimming Method	PWM dimming	Color Adjusting Method	RGBW mixed color
Network Distance	150m	Wireless Transmit Power	20dBm
Receiving Sensibility	-101dBm	Working Temperature Range	- 25°C~+70°C
Protocol	ZigBee Light Link	Communication Distance	300m



Ultra-low Power Consumption



Convenient Installation



Multi-color Adjusting



APP Remote Control

SMART ELECTRONICS SERIES

According to embedded Zigbee module, we connect electronics products into smart home system to remotely control house appliances, modify interior light and ventilated situation, etc.

Smart Window Pusher

TWPD101W-G1

It remotely control window status or intelligently operate according to current weather situation, no need to worry for raining day.



Specification

Working Voltage	24DC 220V AC	Communication Protocol	zigbee
Rated Power	30W	Main Material	6061 Aviation aluminum
Push Pull Strength	100~300N (Adjustable)	Chain Material	Carbon steel nickel-plated
Protection Level	IP32	Range	20~60cm



Ultra-low Power Consumption



APP Remote Control



Smart Linkage



Modify Window Opening Processing

Smart Plug

NSKT119W-L1



It achieves Zigbee3.0 International Standard Certificate, remotely control house appliances and monitors real-time power to save energy and be safer.

Specification

Working Voltage	AC110-240V 50/60Hz	Communication Protocol	zigbee
Maximum Current	10A	Working Temperature	-20 ~ 45°C
Material	PC Flame retardant polymer	Working Humidity	≤80%
Maximum Load	2000W (resistor load)	Life	100000 times
Consumption Power	≤0.3W	Communication Range	130 meters (Indoor)



Over-load Protection



Timely ON/OFF



Power Monitor



Remote Control

Thermostat

TTMT101W-U1



It applies high-sensitive capacitive touch screen, remotely control through APP and supports for auto temperature modifying , as well as other easy operation.

Specification

Input Voltage	AC220V 50Hz	Communication Protocol	zigbee
Responding Time	≤10s	Maximum Setting Temperature	2~49.5°C (4-99 ° F)
Restore Time	≤30s	Minimum Setting Temperature	0~47.5°C (0-95 ° F)
Life	≥10 years	Dimension	120*120*52mm



Touch Screen



Remote Control



Indoor Temperature Modifying



Easy Installation



One Gang Switch

TZSW11GB-V1

It applies newly glass panel material with light hole and night indicator. It supports zigbee wireless protocol as well. We can use mobile APP to remotely control.

Specification

Power Voltage	AC 110V-220V	Standby Power Consumption	<1W
Load Power	LED light power less 120w, and incandescent bulb light less than 300w	Working Frequency	2405-2480MHz
Wireless Transmit Power	20dBm	Receiving Sensibility	-101dBm
Protocol	zigbee	Communication Distance	300m
Network Distance	150m	Working Temperature Range	-25°C~+70°C



Flame Retardant Material



zigbee Wireless Communication



High Sensibility



Status Feedback

Two Gang Switch

TZSW21HB-V1

It supports multi-groups of lighting, easy installation and compliant to European electrical standard, and can control whole house lighting system through APP.

Specification

Power Voltage	AC 110V-220V	Standby Power Consumption	<1W
Load Power	LED light power less 120w, and incandescent bulb light less than 300w	Working Frequency	2405-2480MHz
Wireless Transmit Power	20dBm	Receiving Sensibility	-101dBm
Protocol	zigbee	Communication Distance	300m(+PA)
Network Distance	150m(+PA)	Working Temperature Range	-25°C~+70°C



High Sensibility



Flame Retardant Material



Touch Screen



Easy Installation





Three Gang Switch

TZSW31IB-V1

It applies newly glass panel material with light hole and night indicator. It supports zigbee wireless protocol as well. We can use mobile APP to remotely control.

Specification

Power Voltage	AC 110V-220V	Standby Power Consumption	<1W
Load Power	LED light power less 120w, and incandescent bulb light less than 300w	Working Frequency	2405-2480MHz
Wireless Transmit Power	20dBm	Receiving Sensibility	-101dBm
Protocol	zigbee	Communication Distance	300m
Network Distance	150m	Working Temperature Range	-25°C~+70°C



Zigbee Wireless Communication



Easy Installation



Touch Screen



One Key Control

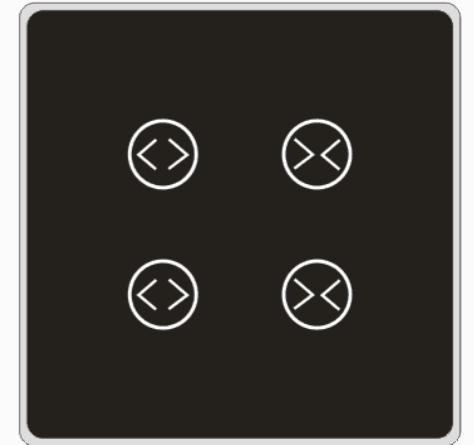
Smart Curtain

TCUR218B-V1

It can locally switch on/off curtain, or remotely and timely control, as well as automatic scenes .

Specification

Power Supply	AC100~265V 50/60Hz	Communication Protocol	zigbee
Frequency	2.4GHz	Connection Wire	Null and Live Wire
Standby Power	<50mW	Panel Material	Tempered glass
Load Power	800W/circuit (Resistive load)	Casing Material	ABS+PC flame Retardant Material
Working Temperature	-10~+60 (°C)	Dimension	86*86*35mm



Touch Screen



Easy Operation



Flame Retardant Material



Remote Control







Scene Switch

TZSN408B-V1

It applies high-sensitive capacitive touch screen, which users can customize scene modes and remotely control through APP.

Specification

Input Voltage	AC100~265V 50/60Hz	Communication Protocol	zigbee
Frequency	2.4GHz	Wire Connection	Null and Live wire
Standby Power	<0.1W	Panel Material	Temperate Glass
Receiving Sensibility	<-90dB	Casing Material	ABS+PC flame Retardant Material
Working Temperature	-25°C~+70°C	Dimension	86*86*35mm

- 
Scene Linkage
- 
Easy Installation
- 
Remote Control
- 
Touch Screen





Dimmer Switch

TZSC302B-V1

It uses high-sensitive capacitive touch screen, easily installed, and supports to control indoor lighting brightness.

Specification

Power Voltage	AC 110V-220V	Standby Power Consumption	<1W
Working Frequency	2405-2480MHz	Wireless Transmit Power	4.5dBm
Receiving Sensibility	-101dBm	Protocol	Zigbee Light Link
Communication Distance	300m	Network Distance	150m
Working Temperature Range	-25°C~+70°C	Dimension	86*86*36mm

- 
Brightness Control
- 
Flame Retardant Material
- 
High Sensibility
- 
Touch Screen



SMART SECURITY SERIES

Security sensor is an important part for smart home system. It collects exterior environment data ,and sends to could and mobile devices, so that users can in real time monitor house situation to avoid emergencies such as fire ,burglary, etc.

Smart Door Lock

NDOR111B-T1

It supports multiple unlock methods, like fingerprint, remote accrediting, etc. Strict data encryption technology highly strengthen its information safety, which can prevent breaking-in alarm, provide remote prompt message and so on.



Specification

Working Voltage	DC 6V	Communication Protocol	zigbee
Power Supply	Battery	Password Length	Over 6 numbers
Backup Power	DC 9V	Battery Life	10000 times
Low Voltage Alarm	4.8V	Finger Using Angle	360 degree
Password	Random Combination	Restart Time	Less than 1s



Breaking-in Alarm



Multiple Verification



Remote Unlock



Virtual Password



Motion Sensor

TBOT105W-M2

It detects movement based on body temperature to link and trigger other standard Zigbee smart home products.

Specification

Working Voltage	DC 3V	Communication Protocol	zigbee
Standby Current	≤16uA	Working Temperature	-10°C~+50°C
Alarm Current	≤30mA	Working Humidity	Max.95%RH
Detecting Angle	110°	Wireless Network Range	≤100m (Open Space)
Detecting Range	9~12m	Dimension	65*65*28mm



Easy Installation



High Sensibility



Remote Prompt



IR Detection

Temperature And Humidity Sensor

TTHM112G-M2

It detects indoor/ outdoor temperature and humidity, and supports to link all kinds of house electric appliances.

Specification

Working Voltage	DC 3V	Communication Protocol	zigbee
Standby Current	≤10μA	Working Temperature	-10°C~+50°C
Environment Humidity	Max.95%RH	Wireless Network Range	≤100m (Open space)
Dimension	60*60*20.8mm		



Ultra-low Power Consumption



Easy Installation



Intelligent Detection



Environment Monitor



Security Remote

TZRC104W-M2

It is easily operated , and needs only one key to control several modes like alarm,silent , leave and so on.

Specification

Working Voltage	DC 3V	Communication Protocol	zigbee
Standby Current	≤16μ A	Working Temperature	-10°C~+50°C
Alarm Current	≤30mA	Environment	Max.95%RH
Wireless Network Range	≤100m (open space)	Dimension	57*35*13mm



Ultra-low Power Consumption



One-key Arm



One-key Disarm



Portable

Water Leakage Sensor

TWTS103W-M2

It detects water leaking status within its range, and prompts alarm message immediately to avoid loss.

Specification

Working Voltage	DC 3V	Communication Protocol	zigbee
Standby Current	≤5μ A	Working Temperature	-10°C~+50°C
Alarm Current	≤30mA	Environment Humidity	Max.95%RH
Wireless Network Range	≤100m (Open space)	Dimension	60*30*11.8mm



Real Time Detection



Stick To Use



Scene Linkage



Remote Prompt



High Sensibility



CO Detector

TCOS102W-M2

It detects indoor CO density, links air conditioner and ventilation system to purify air quality, and poses siren feature.

Specification

Working Voltage	DC 3V (Li Battery)	Communication Protocol	zigbee
Standby Current	≤10μA	Working Temperature	-10°C~+50°C
Alarm Current	≤60mA	Environment Humidity	Max.95%RH
Wireless Network Range	≤100m (open space)	Dimension	60*60*49.2mm
Alarm Decibel	85dB/m		



Low Power Alarm



Easy Installation



Remote Prompt



Sound And Light Alarm

SOS Button

TSOS102W-M2

It is very easy to operate , portable especially for the elder, children and patients.

Specification

Working Voltage	DC 3V	Communication Protocol	zigbee
Standby Current	≤3μA	Working Temperature	-10°C~+50°C
Alarm Current	≤30mA	Environment Humidity	Max.95%RH
Wireless Network Range	≤100m (Open space)	Alarm Decibel	85dB/m



Sensitive Responding



One-key SOS



Remote Prompt



Linkage Alarm



Gas Detector

TGAS102W-M2

It detects gas leaking status and prompts alarm message in time.

Specification

Working Voltage	AC100V~240V	Communication Protocol	zigbee
Average Power Consumption	≤1.5W	Working Temperature	-10°C~+50°C
Alarm Decibel	75dB/1m	Environment Humidity	Max.95%RH
Wireless Network Range	≤100m (open space)	Dimension	79*68*45.5mm
Alarm Density	6%LEL ± 3%LEL		



Easy Installation



Gas Monitor



Remote Alarm



High Decibel Alarm

Smoke Sensor

TSMF102W-M2

It detects smoke in real time, and reminds user of smoke leaking in advance to prevent fire disaster.

Specification

Working Voltage	DC 3V	Communication Protocol	zigbee
Standby Current	≤10μA	Working Temperature	-10°C~+50°C
Alarm Current	≤60mA	Environment Humidity	Max.95%RH
Alarm Decibel	85dB/3m	Dimension	60*60*49.2mm
Wireless Network Range	≤100m (Open space)		



Scene Linkage



Low Voltage Alarm



Remote Silent



High Decibel Alarm



Door/Window Sensor

TDOS106G-M2

It responds real-time door/window open and close status to protect house property.

Specification

Working Voltage	DC 3V	Communication Protocol	zigbee
Standby Current	≤5 μA	Working Temperature	-10°C~+50°C
Alarm Current	≤30mA	Environment Humidity	Max.95%RH
Detecting Angle	110°	Detector Dimension	60*30*11.8mm
Detecting Range	≥20mm	Main Dimension	65*13*12.5mm



Easy Installation



Ultra-low Power Consumption



Scene Linkage



Real-time Responding

Siren

TAVA105W-J1

It is easy to install, exquisite design casing, supports zigbee wireless communication technology. Besides it can be triggered by customized scene to alarm high decibel.



Specification

Power Voltage	AC100-240V	Alarm Current	< 200mA
Standby Current	< 40mA	Receive Distance	100m
Alarm Decibel	110dB	Working Temperature	-20°C~+50°C



Instant Plugin To Use



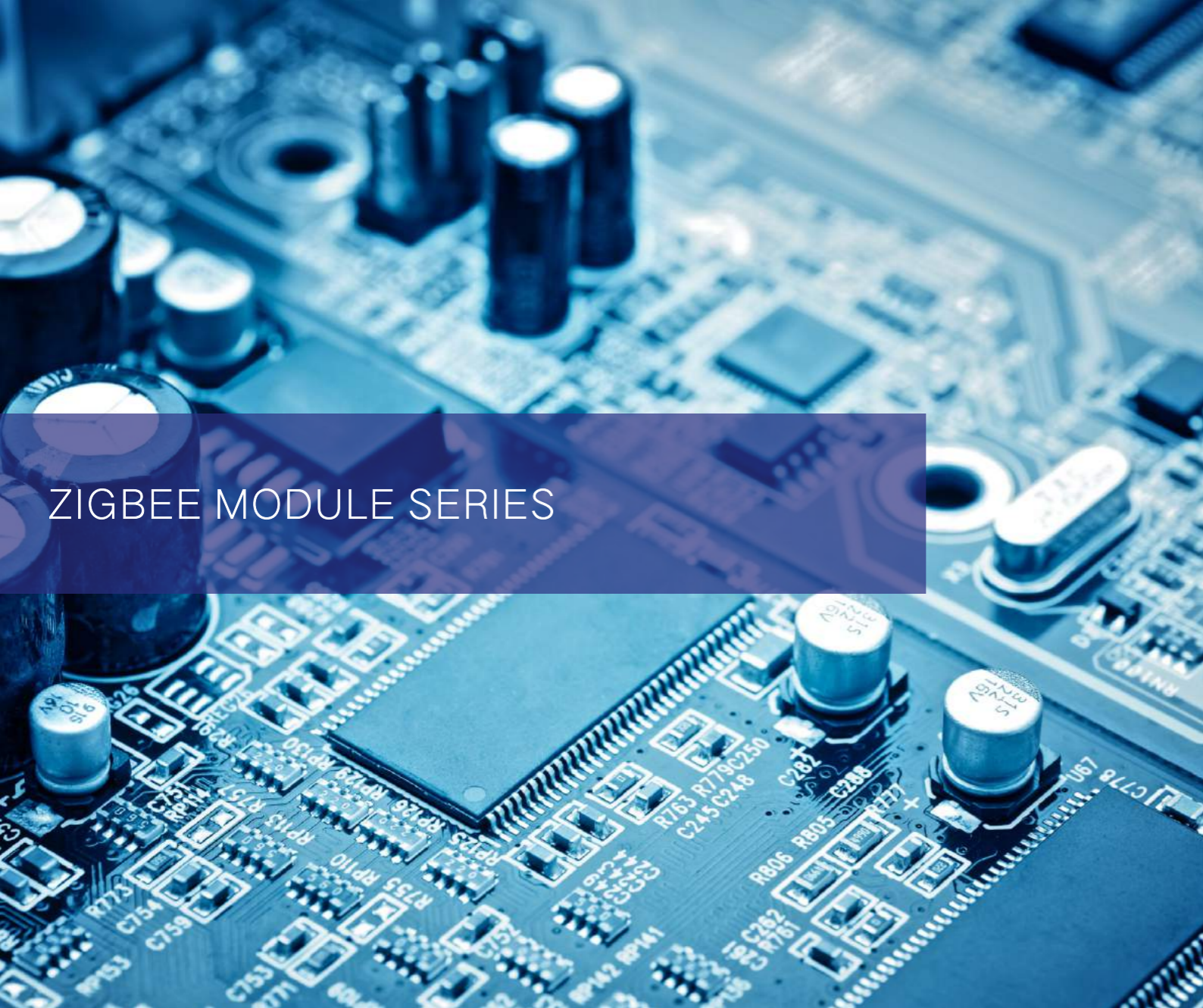
High Decibel Alarm



One Key Arm



Scene Linkage



ZIGBEE MODULE SERIES



FZB5612



FZB57A3+



FZB5600+



FNB5616

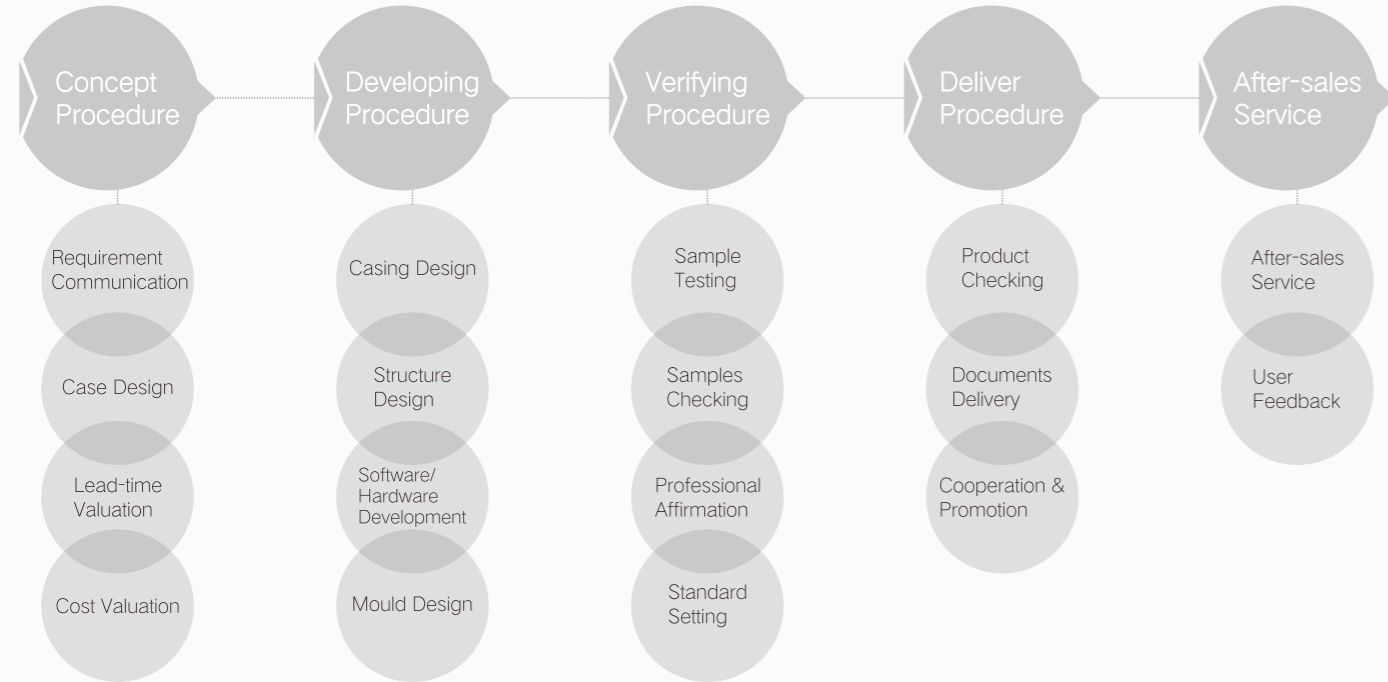


FNB56A6

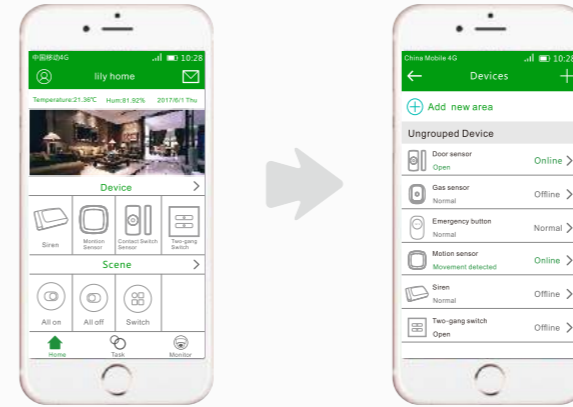
Module	Frequency	Max. Transmitting Power	Accessible Communication Range	Accessible Network Range	Receiving Sensibility	Working Temperature	Power	Standby Current	Working Current	Supported Protocol	Weight	Dimension (L*W*H)
FZB5612	2405~2480MHz	4dBm	200m	100m	-97dBm	-40°C~+125°C	+2.0v~+3.6v (Recommend Value +3.3V)	12mA (Sleepless)	27mA (Tx) 25mA (Rx)	ZHA / ZLL / Zigbee3.0	5g (With antenna)	15mm* 28mm*2mm
FZB57A3+	2405~2480MHz	20dBm	800m	400m	-100dBm	-20°C~+85°C	+2.0v~+3.6v (Recommend Value +3.3V)	15mA	175mA (Tx) 25mA (Rx)	ZHA / ZLL / Zigbee3.0	5g (With antenna)	18mm* 27mm*2.5mm
FZB5600+	2405~2480MHz	20dBm	400m	250m	-100dBm	-40°C~+125°C	+2.1v~+3.6 (Recommend Value +3.3V)	12mA (Sleepless)	175mA (Tx) 25mA (Rx)	ZHA / ZLL / Zigbee3.0	5g (With antenna)	17.45mm* 28mm*0.8mm
FNB5616	2405~2480MHz	10dBm	300m	200m	-95dBm	-40°C~+125°C	+2.0v~+3.6v (Recommend Value +3.3V)	1 μA (Sleep)	23.3mA (Tx@10dBm) 14.7mA(Rx)	ZHA / ZLL / Zigbee3.0	2.4g (With Antenna)	15mm*28mm* 2mm(± 0.15mm)
FNB56A6	2405~2480MHz	10dBm	250m	150m	-96dBm	-40°C~+125°C	+2.0v~+3.6v (Recommend Value +3.3V)	1 μA (Sleep)	23.3mA (Tx@10dBm) 14.7mA(Rx/Rx)	ZHA / ZLL / Zigbee3.0	5g (With antenna)	15mm* 24mm*2.2mm

COOPERATION MODE AND BUSINESS RANGE

Product Customization Development



Module and Gateway Integration



APP CUSTOMIZATION

Feibit provides APP developing service. Clients can directly use our APPs, like HUI HM, Wisdom House, or we customize their own APP based on our SDK.

CLOUD PLATFORM SERVICE

Feibit cloud platform offers free remote control and information prompt services to clients. Besides, we also help to integrate clients' cloud platform, as well a third-party cloud platform.



VOICE CONTROL

With the development of AI application, voice platform has become one of the most competitive way in smart home system. It makes house environment more comfortable, which is people ' s longing for the future life. Till now, we have successfully integrated with many main voice speakers.

Such as Amazon Alexa, Google Home, Tmall Genie. As long as those devices have been connected with Feibit standard Zigbee products, you can realize inter operative feature according to voice control, which simply people ' s lifestyle.



FBee® Inside + amazon alexa

FBee® Inside +  works with the Google Assistant

FBee® Inside + 

FBee® Inside + 天猫精灵 Tmall Genie

PARTNERS

Feibit has focused on wireless sensor network for over ten years, established close relationship with many famous international enterprises, thus we can handle various clients' requirement to bring mutual benefit.



COMPANY HONOR



National High-tech Enterprise Certificate



Zigbee Alliance Member



Software Company Certificate



Quality System Certificate



ZLL Certificate



ZHA Certificate



Zigbee 3.0 Certificate



FCC Certificate



Environment System Certificate



Utility Model Patent Certificate



CE Certificate