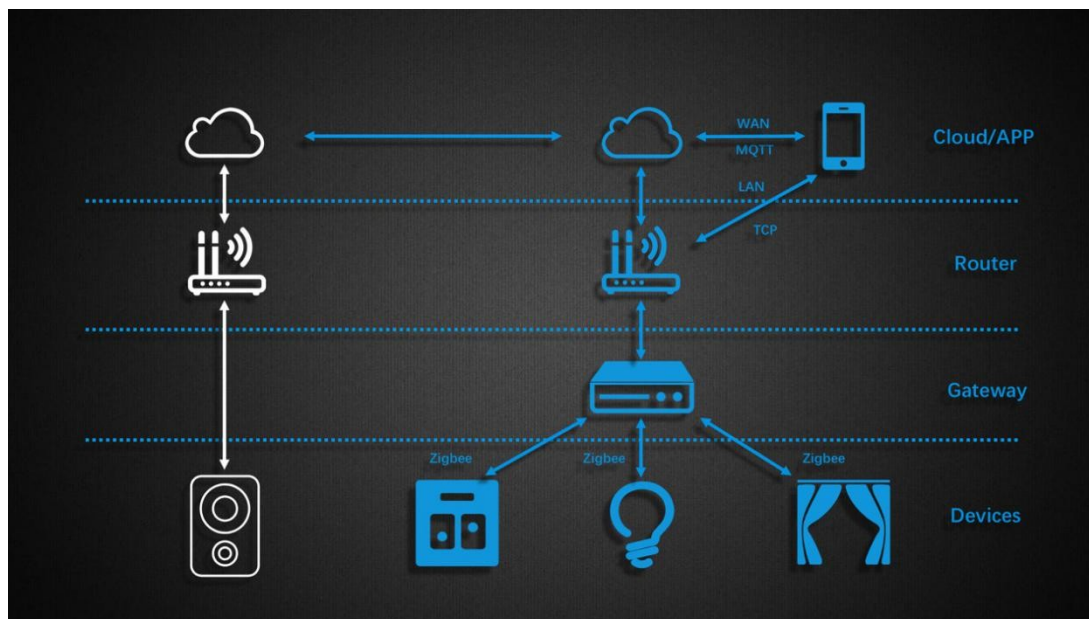# Zigbee LAN Gateway

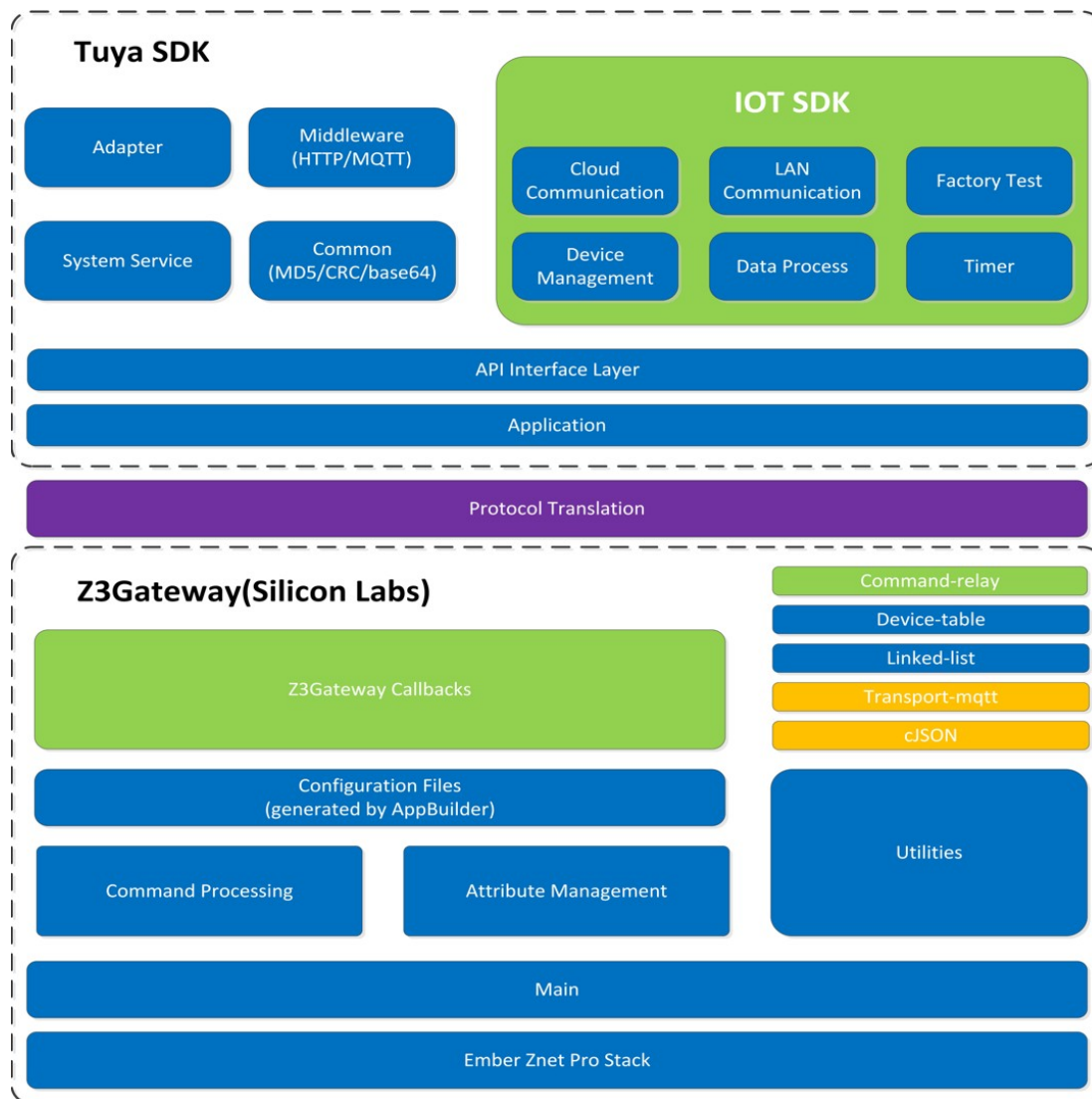# (Model: ZXGWZ-02)

1, Product Brief Introduction

1.1 Introduction

ZXGWZ-02 is a Zigbee gateway with wire, is the central device of Zigbee network. Zigbee device is added to network through Zigbee gateway so as to communicate with other Zigbee devices. Zigbee gateway is connected to router through network cable for communication with Cloud and mobile, it is ok to check and control Zigbee devices on App.

1.2 Application Diagram

1.3 System Diagram

2, Product Specifications

2.1 Zigbee

Items	Parameter
Chip	EFR32MG1B232
Standard	IEEE 802.15.4
Frequency	2.4 ~ 2.485GHz
Max output	19dBm
Dynamic output	>35dB
Transmission distance without any obstacles	>300m
Frequency error	±15ppm
Theoretical transfer rate	250kbps
Receiving sensitivity	Typical-102dBm，PER<10%
Total number of channel	16
Channel number	11~26
Network topology	support star/tree/mesh network
Antenna	PCB on-board antenna by default
Firmware update	Support OTA

2.2 Host System

Items	Parameter

ZXGWZ-02 Gateway

Chip	RTL8196E
Main frequency	400MHz
Chip Structure	MIPS
Operating system	Linux 3.10
Flash	16Mbit
DDR	512Mbit
USB	1 USB Host/Device，1 USB PHY
UART	1 Debug，1 Data
GPIO	16
WAN	1 10/100M Ethernet port（RJ45 port）
Timer	2 hardware timer，1 watchdog
Indicator	1 power indicator，1 network indicator
Button	1 reset button

2.3 Electrical Specification

Items	Parameter
Adapter	110V ~ 240V AC，5V/1A DC
Working voltage	1.8V ~ 3.3V
Working temperature	-10-55℃
Working humidity	10%-90%RH（non-condensing）
Storage temperature	-20-60℃

Storage humidity	5%-90%RH（non-condensing）

2.4 Physical Specifications

Items	Parameter
Size	95mm x 95mm x 23mm
Weight	73g

2.5 Product Picture

3, Product Functions

3.1 Zigbee Gateway

Support Zigbee 3.0 protocol, can add Zigbee sub-devices.

3.2 Reset Button and Indicator

Working status:
1. when network cable is connected, network indicator is on, if data is being transferred, network indicator will flash.
2. network is not connected, network indicator is off.
3. If gateway is activated, matching networking indicator will be off.
4. if not activated, matching networking indicator will be on.

Matching Network
1. press reset button for ≤5 seconds, will access to matching network mode, it is valid within 1 hour, network indicator will flash without stop.
2. while matching network mode, press reset button for ≤5 seconds, will exit matching network mode, network indicator will be off.

Engineering model:
when gateway is working, press reset button continuously ≥10 times within 10 seconds, then access to engineering model.

Restore Factory setting
Press reset button for more than 5 seconds until network indicator turns to green.

3.2 Firmware Update

Support long distance automatic update or update manually.

3.3 APP

Support Tuya APP or OEM APP.

4, Product Packing

4.1 Packing List

1. Gateway x1
2. Network cable x1
3. Power cablex1
4. User manual x1

4.2 Packing Picture