

Product Specification

Product Name: tuya gateway

Model Name: DSGW-075-tuya

Revision History

| Specification | | Sect. | Update Description | By |
|---------------|------------|-------|--------------------------------------|----|
| Rev | Date | | | |
| 1.0 | 2020-05-26 | | New version release | |
| 2.0 | 2022-07-07 | | Add 5G Wi-Fi and external 4 antennas | |
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Approvals

| Organization | Name | Title | Date |
|--------------|------|-------|------|
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DSGW-075



US



UK



AU



EU

Model List

| Model \ Feature | Country | Wi-Fi 2.4G/5G | Bluetooth 5.0 | Zigbee3.0 | Z-WAVE |
|------------------|---------|------------------|---------------|-----------|--------|
| DSGW-075-tuya-US | US | • | | • | |
| DSGW-075-tuya-UK | UK | • | | • | |
| DSGW-075-tuya-AU | AU | • | | • | |
| DSGW-075-tuya-EU | EU | • | | • | |

1. Introduction

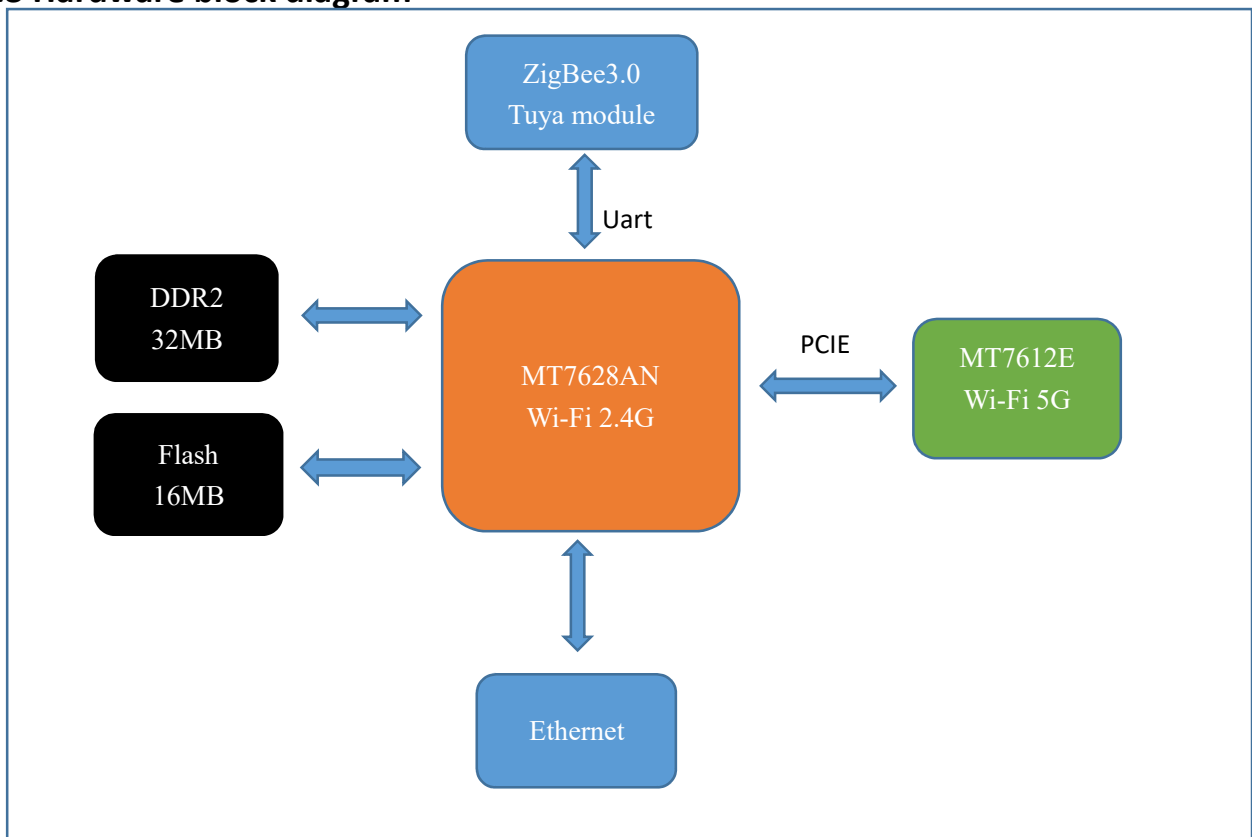
1.1 Purpose& Description

The tuya gateway is developed based on DSGW-070-1, it can be connected to tuya's ZigBee device. You can control the devices via the gateway with tuya App or smart life App.

1.2 Product Feature Summary

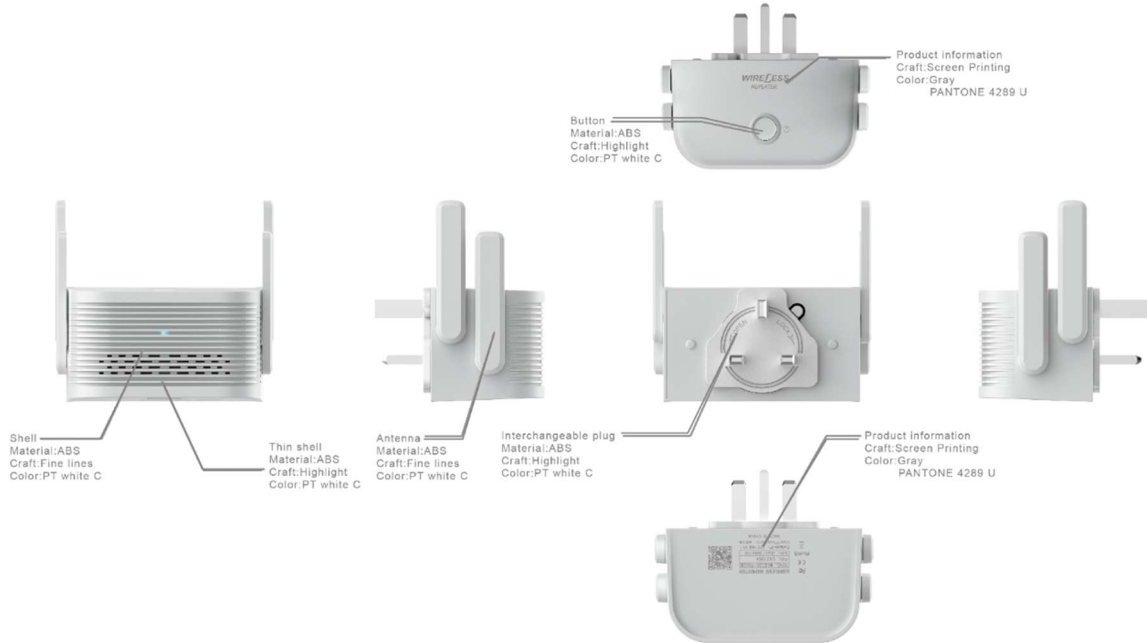
- Support 100-240V AC power supply
- Support Support IEEE802.11ac, IEEE802.11n, IEEE802.11g, IEEE 802.11b Protocol;
- Up to 1200Mbps data rate
- Support AP mode
- Support WPS
- Support the MIMO technology
- Support zigbee 3.0;
- Support tuya app or smartlife APP
- RoHS compliance(Lead-free)
- FCC,CE compliance

1.3 Hardware block diagram

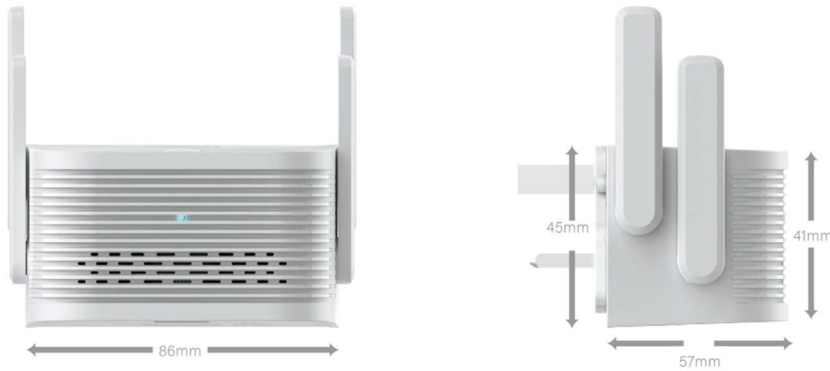


2. Mechanical Requirement

2.1 Drawings



2.2 Product Size



2.3 Plug accessories



3. Specifications

| Technical Specification | |
|-------------------------|--|
| Power | Input:100V~240V AC/50~60HZ |
| Indicator LEDs | Used for device status indication |
| Button | The button use as a pair button or rest button |
| Operating Temperature | -10°C~70°C |

| Performance Requirement | |
|-------------------------|---|
| Wi-Fi Performance | <ul style="list-style-type: none"> ● IEEE wireless LAN standard: IEEE802.11ac, IEEE802.11n; IEEE802.11g; IEEE 802.11b ● Data Rate: IEEE 802.11b Standard Mode:1,2,5.5,11Mbps IEEE 802.11g Standard Mode:6,9,12,18,24,36,48,54 Mbps IEEE 802.11n: MCS0~MCS7 @ HT20/ 2.4GHz band MCS0~MCS7 @ HT40/ 2.4GHz band MCS0~MCS9 @ HT40/ 5GHz band IEEE 802.11ac: MCS0~MCS9 @ VHT80/ 5GHz band ● Sensitivity: VHT80 MCS9 : -60dBm@10% PER(MCS9) /5GHz band HT40 MCS9 : -63dBm@10% PER(MCS9) /5GHz band HT40 MCS7 : -70dBm@10% PER(MCS7) /2.4GHz band HT20 MCS7 : -71dBm@10% PER(MCS7) /2.4GHz band ● Transmit Power: IEEE 802.11ac: 13dBm @HT80 MCS9 /5GHz band IEEE 802.11ac: 16dBm @HT80 MCS0 /5GHz band IEEE 802.11n: 14dBm @HT20/40 MCS7 /5GHz band IEEE 802.11n: 16dBm @HT20/40 MCS0 /5GHz band IEEE 802.11n: 16dBm @HT20/40 MCS7 /2.4GHz band IEEE 802.11g: 16dBm @54MHz IEEE 802.11b: 18dBm @11MHz ● Wireless Security: WPA/WPA2, WEP, TKIP, and AES ● Working mode : Bridge、Gateway、AP Client |
| Zigbee3.0 Performance | <ul style="list-style-type: none"> ● Range: 100 meters minimum, open field ● Transmit Power:17.5dBm ● Highest Transmission Rate: 300Mbps ● Frequency offset: +/- 20KHZ ● Receiving Sensibility:-94dBm ● Frequency Range (MHz):2401.0~2483.5 ● Low Frequency (MHz):2400 ● High Frequency (MHz):2483.5 |

| | |
|--|--|
| | <ul style="list-style-type: none"> • E.i.r.p (Equivalent Isotropically Radiated power) (mW)<100mW • Bandwidth (MHz):5MHz • Modulation: OQPSK |
|--|--|

4. QA Requirements

4.1 Quality Information

| Quality & Testing Information | |
|-------------------------------|------------------------------|
| Information Description | Standard(Yes) custom(No) |
| ESD Testing | Yes |
| RF Antenna Analysis | Yes |
| Environmental Testing | Yes |
| Reliability Testing | Yes |
| Certification | FCC,CE, zigbee certification |
| | |

5. Application

