

# SilverCrest Zigbee Gateway

EDIT PAGE

TWEET @BLA

Model TYGWZ-01 manufactured by Lidl

Zigbee ID:



**Supports:**  
coordinator

**Available from:**

Lidl.de

Idealo.de

**Manufacturer:**

Go.tuya.com

## Confirmed working with

ZHA

ZIGBEE2MQTT

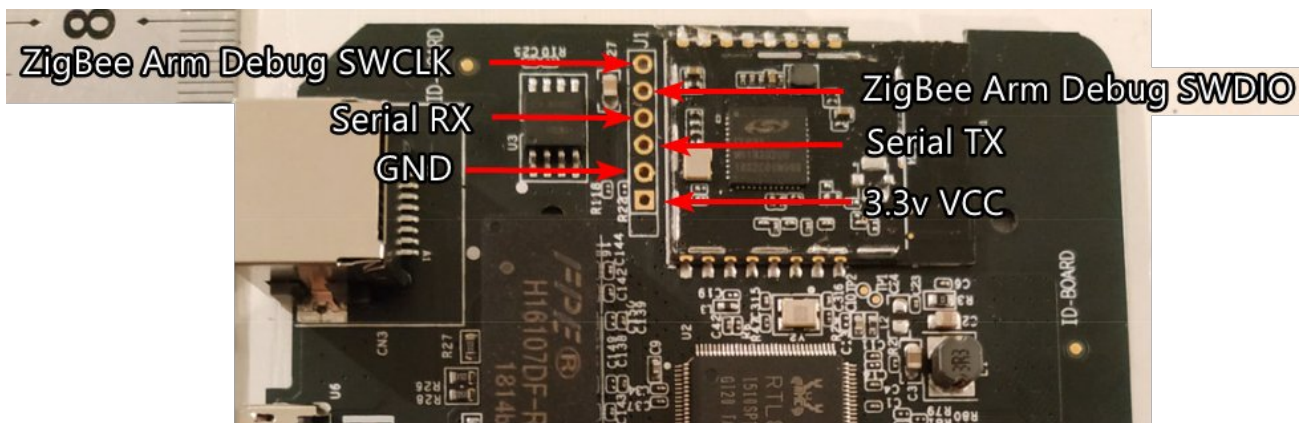
ZIGBEE FOR DOMOTICZ

If the device is following Zigbee standards it is possible it will work with other gateway solutions, it is just not confirmed as working yet!

## Retrieve Root Password

Method courtesy Of Paul Banks [here](#) and [here](#)

Pry the device open, there are 8 clips around the edges.





```
no sys signature at 00010000!
```

## Retrieving the KEK (Encryption Key)

1. Run the following commands in the terminal:

```
FLR 80000000 401802 16
DW 80000000 4
```

Save the output of these commands, it should be something like:

```
80000000:      743B5638      6872576B      47694E69
233C2778
```

## Retrieving the AUSKEY

1. Run the following commands in the terminal:

```
FLR 80000000 402002 32
DW 80000000 8
```

Save the output of these commands, it should be something like:

```
80000000:      110AAC2E      CC412394      5387DC8C
C98550E0
80000010:      7E64CE90      5795D7A9      4BA6FF51
8C2908E7
```

## Decoding the root password

Download the Python script from Paul's Github here: [lidl\\_auskey\\_decode.py](#)

Run the script and input the output from the commands you ran above (making sure to INCLUDE the `80000000:` and `80000010:` )

The script should then print your gateway's root password.

## Customise running software on the

# gateway

This section must be run on Linux or WSL (Or any Bash like shell)

1. SSH into your gateway with the username `root` and the password you decoded earlier, the SSH server will be running on port `2333` and run the following

```
if [ ! -f /tuya/ssh_monitor.original.sh ]; then cp
  /tuya/ssh_monitor.sh /tuya/ssh_monitor.original.sh; fi
echo "#!/bin/sh" >/tuya/ssh_monitor.sh
reboot
```

2. The SSH port of the gateway will now be running on the standard 22 instead of 2333
3. Download the serialgateway.bin from Paul's website here: [serialgateway.bin](#)
4. Use cat and ssh to upload this file to the gateway:

```
cat serialgateway.bin | ssh root@[gateway_ip] "cat >/tuya/serialgateway"
```

1. Connect to your gateway with ssh with the username `root` and with the password you decoded earlier
2. Run the following on the Gateway:

```
if [ ! -f /tuya/tuya_start.original.sh ]; then cp /tuya/tuya_start.sh
  /tuya/tuya_start.original.sh; fi

cat >/tuya/tuya_start.sh <<EOF
#!/bin/sh
/tuya/serialgateway &
EOF
chmod 755 /tuya/serialgateway

reboot
```

## Upgrade the EZSP Version to 6.7.8.0

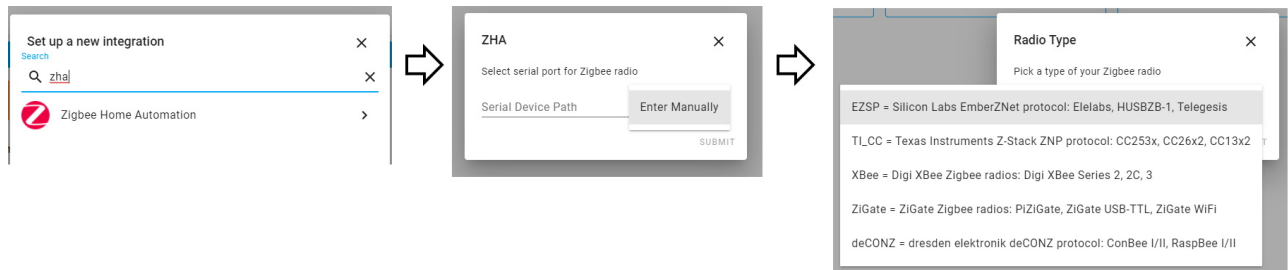
This section must be run on Linux or WSL (Or any

# Bash like shell)

1. Download the `firmware_upgrade.sh` script from Github here: [firmware\\_upgrade.sh](#) and the [sx binary](#) as well as the newer EZSP firmware from here: [NCP\\_UHW\\_MG1B232\\_678\\_PA0-PA1-PB11\\_PA5-PA4.gbl](#)
2. Make sure the script is executable with `chmod +x ./firmware_upgrade.sh`
3. Run the `firmware_upgrade.sh` script like this: `./firmware_upgrade.sh [gateway_ip] 22 V7 NCP_UHW_MG1B232_678_PA0-PA1-PB11_PA5-PA4.gbl` - You may be prompted for the root password several times.
4. Reboot the gateway

# For Home Assistant (ZHA)

In Home Assistant (requires version 0.113+) go to **Configuration - Integrations**, click the **+** icon, search for ZHA integration and select it.



1. choose “Enter Manually” for serial port
2. for Radio Type choose “EZSP”
3. under Serial device path enter `socket://[gateway_ip]:8888` replacing `[gateway_ip]` with its IP address. Do not use hostnames.
  - if you changed the port number use yours
  - set port speed to “115200”
4. when the Gateway is discovered you will get a confirmation message

