# 9 in 1 Protocol

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|---|---|

# 1 Commands Shared

## Address Detection

### 1.1.1 Detect Address

**Remark: Detect address by pressing broadcast address button**

**Supported Device: All modules which have broadcast button**

| Operation Code: **0x E5F5** | | |
|---|---|---|
| Target Subnet ID: | Broadcast address | 0xFF |
| Target Device ID: | | |
| **Additional Content** | | |
| LEN of additional content:: 0 byte | | |

**Response**

| Operation Code: **0x E5F6** | | |
|---|---|---|
| Target Subnet ID: | Broadcast address | 0xFF |
| Target Device ID: | | 0xFF |
| **Additional Content** | | |
| LEN of additional content::2 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Subnet ID of target device | 1byte |
| 1 | Device ID of target device | 1byte |

### 1.1.2 Modify Address

**Supported Device: All modules which have address broadcast button**

| Operation Code: **0xE5F7** | | |
|---|---|---|
| Target Subnet ID: | Specify old subnet ID of target device | scope 1-254 |
| Target Device ID: | Specify old device ID of target device | scope 1-254 |
| **Additional Content** | | |
| LEN of additional content::2 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | New Subnet ID | 1byte , scope 1-254 |
| 1 | New Device ID | 1byte , scope 1-254 |

**Response**

| Operation Code: **0x E5F8** | | |
|---|---|---|
| Target Subnet ID: | Broadcast address | 0xFF |
| Target Device ID: | | 0xFF |
| **Additional Content** | | |
| LEN of additional content::1byte | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag for success or Failure | 1byte<br>Success =0xF8<br>Failure=0xF5 |

## 1.2 Device Backup

### 1.2.1 Request Total QTY of packages from PC to target Device

**Supported Device: All G4 Modules**

| Operation Code: **0xDC10** |
|---|

| | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is Big UDP Package format : No | | |
| **Additional Content** | | |
| LEN of additional content:0 byte | | |

**Response**

| Operation Code: **0x DC11** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| Is Big UDP Package format: No | | |
| **Additional Content** | | |
| LEN of additional content:3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |
| 1 | High 8 bits of Total QTY of packages | Total QTY of Packages : 2 bytes |
| 2 | Low 8 bits Total QTY of packages | |

## 1.2.2 Request Current Small Package from PC to target device

**Supported Device: all G4 modules**

| Operation Code: **0xDC14** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is big UDP Package format :No | | |
| **Additional Content** | | |
| LEN of additional content::2 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | High 8 bits of current Package No | Current Package No: 2 bytes |
| 1 | Low 8 bits of current Package No | |

**Response**

| Operation Code: **0x DC15** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| Is big UDP Package format : **No** | | |
| **Additional Content** | | |
| LEN of additional content: MAX. 65 bytes (Max. Flash data is 59 bytes) | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | High 8 bits of current package No | Current Package No : 2 bytes |
| 1 | low 8 bits of current package No | |
| 2 | Flag of external flash or inner memory | 1byte<br>external flash=1<br>inner memory=0 |
| 3 | High 8 bits of flash Start Address | 3 bytes |
| 4 | Medium 8 bits of flash Start Address | |
| 5 | Low 8 bits of flash Start Address | |
| 6 | Flash data start | |
| … | | |
| 64 (MAX.) | Flash data end | |

## 1.3 Device Restore

### 1.3.1 Send Total QTY of Packages from PC to Target Device

**Supported Device: All Modules**

| Operation Code: **0xDC16** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is Big UDP Package format : No | | |
| **Additional Content** | | |
| LEN of additional content:2 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |

| | | |
|---|---|---|
| 0 | High 8 bits of total QTY of packages | Total QTY of packages : 2 bytes |
| 1 | Low 8 bits total QTY of packages | |

**Response**

| Operation Code: **0xDC17** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| Is Big UDP Package format: No | | |
| **Additional Content** | | |
| LEN of additional content:1byte | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |

## 1.3.2 Send Small Package from PC to Target Device

**Supported Device: All modules**

| Operation Code: **0xDC1A** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is Big UDP Package format : **No** | | |
| **Additional Content** | | |
| LEN of additional content: MAX. 65 bytes (Max. Flash data is 59 bytes) | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | High 8 bits of current package No | Current Package No : 2 bytes |
| 1 | low 8 bits of current package No | |
| 2 | Flag of external flash or inner memory | 1byte<br>external flash=1<br>inner memory=0 |
| 3 | High 8 bits of flash start address | 3 bytes |
| 4 | Medium 8 bits of flash Start Address | |
| 5 | Low 8 bits of flash start address | |
| 6 | Flash data start | |
| … | | |
| 64 (MAX.) | Flash data end | |

**Response**

| Operation Code: **0xDC1B** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| Is Big UDP Package format: No | | |
| **Additional Content** | | |
| LEN of additional content::3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |
| 1 | High 8 bits of current package No | Current Package No : 2 bytes |
| 2 | Low 8 bits of current package No | |

## 1.4 MAC Address

### 1.4.1 Read MAC Address

**Supported Device: All modules**

| Operation Code: **0x F003** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is Big UDP Package format : **No** | | |
| **Additional Content** | | |
| LEN of additional content: 0 byte | | |
| **Index of Additional Content** | **Remark** | **Value** |

**Response**

| Operation Code: **0xF004** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| Is Big UDP Package format: No | | |
| **Additional Content** | | |
| LEN of additional content: If is not hotel devices ,8 bytes, more bytes no use | | |

| Index of Additional Content | Remark | Value |
|---|---|---|
| 0 | MAC 1st byte | 1byte |
| 1 | MAC 2nd byte | 1byte |
| 2 | MAC 3rd byte | 1byte |
| 3 | MAC 4th byte | 1byte |
| 4 | MAC 5th byte | 1byte |
| 5 | MAC 6th byte | 1byte |
| 6 | MAC 7th byte | 1byte |
| 7 | MAC 8th byte | 1byte |
| 8 | 1st byte of Remark | 20bytes, If the length of remark is less than 20, please use ASCII of space. |
| 9 | 2nd byte of remark | |
| 10 | 3rd byte of remark | |
| 11 | 4th byte of remark | |

## 1.4.2 Modify MAC Address

**Supported Device: All modules**

| Operation Code: **0x F001** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is Big UDP Package format : **No** | | |
| **Additional Content** | | |
| LEN of additional content: 8 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | MAC 1st byte | 1byte |
| 1 | MAC 2nd byte | 1byte |
| 2 | MAC 3rd byte | 1byte |
| 3 | MAC 4th byte | 1byte |
| 4 | MAC 5th byte | 1byte |
| 5 | MAC 6th byte | 1byte |
| 6 | MAC 7th byte | 1byte |
| 7 | MAC 8th byte | 1byte |

**Response**

| Operation Code: **0xF002** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| **Additional Content** | | |

| LEN of additional content: 1 byte | | |
|---|---|---|
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |

## 1.5 Read device remark

**Remark:This operation has two ways to use**

**1 Send to specify device to get its remark**

**2 Broadcast to the LAN to get there devices' remark on the LAN**

**Supported Device: All modules**

**1**

| Operation Code: **0x 000E** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is Big UDP Package format : **No** | | |

**Response**

| Operation Code: **0x000F** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| **Additional Content** | | |
| LEN of additional content: 20 byte | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | 1st byte of Remark | 20bytes,<br>If the length of remark is less than 20, please use ASCII of space. |
| 1 | 2nd byte of remark | |
| 2 | 3rd byte of remark | |
| 3 | 4th byte of remark | |
| 4 | 5th byte of remark | |
| 5 | 6th byte of remark | |
| 6 | 7th byte of remark | |
| 7 | 8th byte of remark | |
| 8 | 9th byte of remark | |
| 9 | 10th byte of remark | |
| 10 | 11th byte of remark | |
| 11 | 12th byte of remark | |
| 12 | 13th byte of remark | |
| 13 | 14th byte of remark | |

| | | |
|---|---|---|
| 14 | 15th byte of remark | |
| 15 | 16th byte of remark | |
| 16 | 17th byte of remark | |
| 17 | 18th byte of remark | |
| 18 | 19th byte of remark | |
| 19 | 20th byte of remark | |

**2**

| Operation Code: **0x 000E** | | |
|---|---|---|
| Target Subnet ID: | Broadcast address | 0xFF |
| Target Device ID: | Broadcast address | 0xFF |
| Is Big UDP Package format : **No** | | |

**Response:**

**Devices in the same LAN will relay a random number time to response ,**

**Every one response as send to specify device**

## 1.6 Write device remark

Supported Device: All modules

| Operation Code: **0x 0010** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is Big UDP Package format : **No** | | |
| **Additional Content** | | |
| LEN of additional content: 20 byte | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | 1st byte of Remark | 20bytes, If the length of remark is less than 20, please use ASCII of space. |
| 1 | 2nd byte of remark | |
| 2 | 3rd byte of remark | |
| 3 | 4th byte of remark | |
| 4 | 5th byte of remark | |
| 5 | 6th byte of remark | |
| 6 | 7th byte of remark | |
| 7 | 8th byte of remark | |
| 8 | 9th byte of remark | |
| 9 | 10th byte of remark | |
| 10 | 11th byte of remark | |
| 11 | 12th byte of remark | |

| | | |
|---|---|---|
| 12 | 13th byte of remark | |
| 13 | 14th byte of remark | |
| 14 | 15th byte of remark | |
| 15 | 16th byte of remark | |
| 16 | 17th byte of remark | |
| 17 | 18th byte of remark | |
| 18 | 19th byte of remark | |
| 19 | 20th byte of remark | |

**Response**

| Operation Code: **0x0011** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| **Additional Content** | | |
| LEN of additional content: 1 byte | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag for success/ failure | 1byte,<br>Success=0xF8<br>Failure =0xF5 |

## 1.7 Read firmware version

Supported Device: All modules

| Operation Code: **0xEEFD** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is Big UDP Package format : **No** | | |
| **Additional Content** | | |
| LEN of additional content: 0 byte | | |

**Response**

| Operation Code: **0xEEFE** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| Is Big UDP Package format: No | | |
| **Additional Content** | | |
| LEN of additional content: 22 bytes, | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 ~21 | Version info | 22 bytes |

## 1.8 Modify subnetID and DeviceID by Mac address

**Supported Device: All modules**

| Operation Code: **0x F005** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is Big UDP Package format : **No** | | |
| **Additional Content** | | |
| LEN of additional content: 10 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | MAC 1st byte | 1byte |
| 1 | MAC 2nd byte | 1byte |
| 2 | MAC 3rd byte | 1byte |
| 3 | MAC 4th byte | 1byte |
| 4 | MAC 5th byte | 1byte |
| 5 | MAC 6th byte | 1byte |
| 6 | MAC 7th byte | 1byte |
| 7 | MAC 8th byte | 1byte |
| 8 | SubnetID | 1byte |
| 9 | SubDeciveID | 1byte |

**Response**

| Operation Code: **0xF002** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| **Additional Content** | | |
| LEN of additional content: 1 byte | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |

## 1.9 To see whether the specify device is on line

Supported Device: All modules

| Operation Code: **0xF065** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte, scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte, scope 1-254 |
| Is Big UDP Package format : **No** | | |
| **Additional Content** | | |
| LEN of additional content: 0 byte | | |

**Response**

| Operation Code: **0xF066** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | 1byte,scope 1-254 |
| Target Device ID: | Specify device ID of target device | 1byte,scope 1-254 |
| Is Big UDP Package format: No | | |
| **Additional Content** | | |
| LEN of additional content: 0 bytes, | | |

# 2 Protocol for Hardware Programming

## 2.1 Outline

为了方便初级安装者，给产品增加硬件编程

### 2.1.1 Address conflicts red warning

如果软件锁标志是开启的（Lock Active），那么模块上电需要检测本身的地址是否有冲突,如果发现有地址冲突时，所有有冲突的模块的地址广播按纽下的 LED 灯需要红色闪烁（Led 指示灯亮 0.3s，灭 0.5s），进行红色警告。

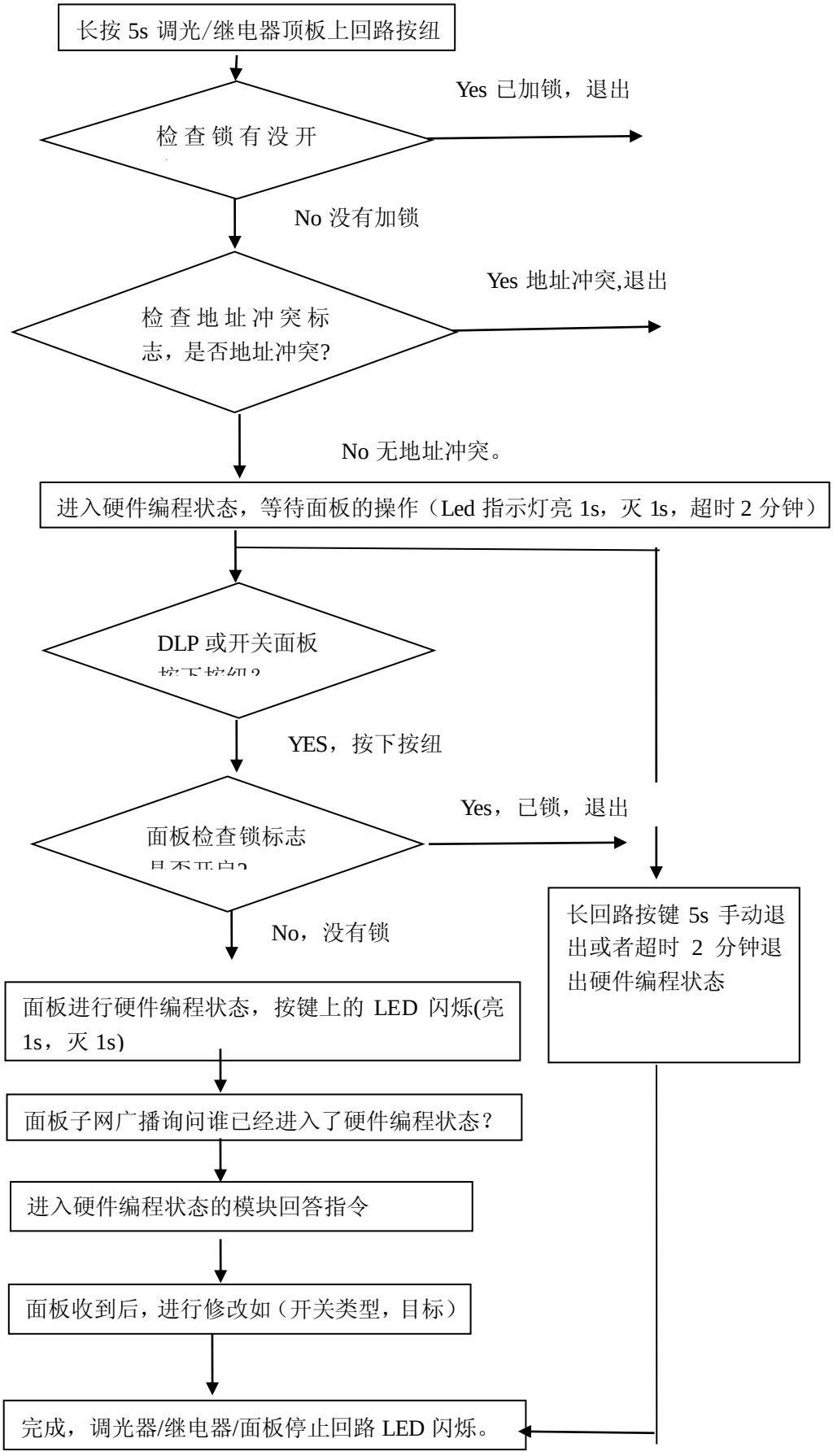
如果软件锁标志是关闭的（Lock inactive）,那么模块上电是不需要检测地址是否冲突的,也不会进行红色警告,这样就不会浪费太多的时间而影响系统的正常使用。

### 2.1.2 Address modification of human involvement

初级安装者可以在模块上进行地址的修改，而不修改使用电脑软件。
存在地址冲突的情况下的地址修改；
在已经存在地址冲突的情况下，这里 LED 已经在闪烁，如果长按地址广播按纽 5s,即进行地

址修改，模块自动分配一个可以使用的地址给当前模块，修改地址完毕后，LED 灯转为绿色，停止闪烁。

### 2.1.3 Hardware Programming Flowchart



## 2.2 The lock flag hardware programming read / write

### 2.2.1 Read Lock

**Supported Device: Dimmer/Relay/HVAC/9in1/DLP/Switch**

| Operation Code: **0x0280** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:: 0 byte | | |

**Response**

| Operation Code: **0x0281** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::1 byte | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Status of Lock | 1byte<br>Active =1<br>Inactive=0 |

### 2.2.2 Modify Lock

**Supported Device: Dimmer/Relay/HVAC/9in1/DLP/Switch**

| Operation Code: 0x0282 | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device or Broadcast address 255 | scope 0-255 |
| Target Device ID: | Specify device ID of target device or Broadcast address 255 | scope 0-255 |
| **Additional Content** | | |
| LEN of additional content:: 1 byte | | |

| Index of Additional Content | Remark | Value |
|---|---|---|
| 0 | Status of Lock | 1byte<br>Active =1<br>Inactive=0 |

**Response**

| Operation Code: **0x0283** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::1 byte | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success/failure | 1byte<br>Success =0xF8<br>Failure=0xF5 |

## 2.3 Ask if any address conflict or not?

**Supported Device: Dimmer/Relay/HVAC/9in1/DLP/Switch**

| Operation Code: **0x0284** | | |
|---|---|---|
| Target Subnet ID: | subnet ID of itself | scope 0-254 |
| Target Device ID: | Broadcast device address | 255 |
| **Additional Content** | | |
| LEN of additional content:: 10 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Subnet ID of itself device | 1byte |
| 1 | Device ID of itself device | 1byte |
| 2 | 1st byte of MAC of itself device | 1byte |
| 3 | 2nd byte of MAC of itself device | 1byte |
| 4 | 3rd byte of MAC of itself device | 1byte |
| 5 | 4th byte of MAC of itself device | 1byte |
| 6 | 5th byte of MAC of itself device | 1byte |
| 7 | 6th byte of MAC of itself device | 1byte |
| 8 | 7th byte of MAC of itself device | 1byte |
| 9 | 8th byte of MAC of itself device | 1byte |

**Response**

| Operation Code: **0x0285** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::9 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | If exist same address or not | 1byte<br>Exist =1<br>Do no exist=0 |
| 1 | 1st byte of MAC of target device | 1byte |
| 2 | 2nd byte of MAC of target device | 1byte |
| 3 | 3rd byte of MAC of target device | 1byte |
| 4 | 4th byte of MAC of target device | 1byte |
| 5 | 5th byte of MAC of target device | 1byte |
| 6 | 6th byte of MAC of target device | 1byte |
| 7 | 7th byte of MAC of target device | 1byte |
| 8 | 8th byte of MAC of target device | 1byte |

## 2.4 Create New Random Address

备注：为了极少地址冲突的机率，需要在 1-254 中产生随机数，每个随机数并需要暂存。在查询前，需要检测历史记录中是否存在，如果存在历史记录，须重新产生一个随机数；如果不存在在历史记录，即查询当前地址是否可用。如果不可用，继续继续产生随机地址。
如果在 2s 钟内没有收到回答，即表明此地址可用。

## 2.5 DLP/Switch Programming

### 备注：问有哪些模块进入硬件编程状态？

**Supported Device: DLP/Switch**

| Operation Code: **0x0286** | | |
|---|---|---|
| Target Subnet ID: | subnet ID of itself | scope 0-254 |
| Target Device ID: | Broadcast device address | 255 |
| **Additional Content** | | |
| LEN of additional content:: 0 byte | | |

**Response**

| Operation Code: **0x0287** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::7 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Subnet ID of controlled device (like Dimmer/Relay/HVAC/9in1) | 1byte |
| 1 | Device ID of controlled device | 1byte |
| 2 | Device Category | 1byte **(see the definition below)** |
| 3 | 1st Parameter | 1byte |
| 4 | 2nd Parameter | 1byte |
| 5 | 3rd Parameter | 1byte |
| 6 | 4th Parameter | 1byte |

Definition of Parameter according to device category

| SN | Device Category | 1st Parameter | 2nd Parameter | 3rd Parameter | 4th Parameter |
|---|---|---|---|---|---|
| 1 | Dimmer | Channel No (brightness =100) | <N/A> | <N/A> | <N/A> |
| 2 | Relay | Channel No | <N/A> | <N/A> | <N/A> |
| 3 | HVAC | Subnet ID | Device ID | <N/A> | <N/A> |
| 4 | Sensors | <N/A> | <N/A> | <N/A> | <N/A> |
| 5 | Z-Audio | <N/A> | <N/A> | <N/A> | <N/A> |

## 2.6 After the success of human involvement to modify the address, subnet broadcast to all devices

**Supported Device: DLP/Switch/Dimmer/Relay/9in1/HVAC**

| Operation Code: **0x0288** | | |
|---|---|---|
| Target Subnet ID: | subnet ID of itself | scope 0-254 |

| Target Device ID: | Broadcast device address | 255 |
|---|---|---|
| **Additional Content** | | |
| LEN of additional content:: 2 byte | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Old Subnet ID (修改前的地址) | 1byte |
| 1 | Old Device ID (修改前的地址) | 1byte |

备注：
当有地址冲突的设备收到以上指令后，检测旧地址是否与本身地址相同，如果不相同，不用处理；如果相同，则在 500ms 内产生一个延时的随机数，之后发送指令 “**2. Ask if any address conflict or not? 问当前子网中有没有与自己的地址冲突？**”

# 11 9 in 1

## 1 Logic mode

### 1.01 Modify temperature outside

| Operation Code: **0x018E** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:12 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Invalid | 1byte<br>=1 |
| 1 | Temperature Enabled | 1byte<br>0 = Enable<br>1 = Disenable |

| | | |
|---|---|---|
| 2 | Temperature compensate | 1byte<br>scope 0-32 |
| 3 | DDP Temperature Enabled | 1byte<br>0 = Enable<br>1 = Disenable |
| 4 | DDP net ID | 1byte<br>scope 0-255 |
| 5 | DDP Devices ID | 1byte<br>scope 0-255 |
| 6 | Invalid | ---------- |
| 7 | 4T Temperature Enabled or not | 1byte<br>0 = Enable<br>1 = Disenable |
| 8 | 4T Net ID | 1byte<br>scope 0-255 |
| 9 | 4T Devices ID | 1byte<br>scope 0-255 |
| 10 | 4T channel No. | 1byte<br>scope 0-7 |
| 11 | Det way of Temperature | 1：get max<br>2：get average<br>3：min |

**Response**

| Operation Code: **0x018F** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | Success=0xF8<br>Failure=0xF5 |

## 1.02 Read temperature outside

| Operation Code: **0x018C** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |

| **Additional Content** |
|---|
| LEN of additional content:0bytes |

**Response**

| Operation Code: **0x018D** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:12 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Invalid | 1byte<br>=1 |
| 1 | Temperature Enabled | 1byte<br>0 = Enable<br>1 = Disenable |
| 2 | Temperature compensate | 1byte<br>scope 0-32 |
| 3 | DDP Temperature Enabled | 1byte<br>0 = Enable<br>1 = Disenable |
| 4 | DDP net ID | 1byte<br>scope 0-255 |
| 5 | DDP Devices ID | 1byte<br>scope 0-255 |
| 6 | Invalid | ---------- |
| 7 | 4T Temperature Enabled | 1byte<br>0 = Enable<br>1 = Disenable |
| 8 | 4T Net ID | 1byte<br>scope 0-255 |
| 9 | 4T Devices ID | 1byte<br>scope 0-255 |
| 10 | 4T Loop No | 1byte<br>scope 0-7 |
| 11 | Det way of Temperature | 1：get max<br>2：get average<br>3：min |

# 1.03 Read temperature range of specify logic block

| Operation Code: **0xD999** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::2 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Logic No. | 1byte<br>scope 0 - 31 |
| 1 | Temperature type Flag | 1byte<br>0x01 = Celsius<br>0x00=Fahrenheit |

**Response**

| Operation Code: **0xD99A** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:7bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Logic No. | byte<br>Scope 0 - 31 |
| 1 | Temperature Flag | 1byte<br>0x01 = Celsius<br>0x00=Fahrenheit |
| 2 | Flag or plus/minus of MAX temperature | 1byte<br>Plus=0,Minus=1 |
| 3 | MAX Temperature value | 1byte<br>Celsius scope（-50-120）<br>Fahrenheit scope(-122-248） |
| 4 | Flag or plus/minus of MIN temperature | 1byte<br>Plus=0,Minus=1 |
| 5 | MIN Temperature value | 1byte<br>Celsius（-50-120）<br>Fahrenheit（-122-248） |
| 6 | Voice count | 1-10 |

## 1.04 Modify temperature range of specify logic block

| Operation Code: **0xD997** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::7bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Logic No. | byte<br>Scope 0 - 31 |
| 1 | Temperature Flag | 1byte<br>0x01 = Celsius<br>0x00=Fahrenheit |
| 2 | Flag or plus/minus of MAX temperature | 1byte<br>Plus=0,Minus=1 |
| 3 | MAX Temperature value | 1byte<br>Celsius scope（-50-120）<br>Fahrenheit<br>scope(-122-248） |
| 4 | Flag or plus/minus of MIN temperature | 1byte<br>Plus=0,Minus=1 |
| 5 | MIN Temperature value | 1byte<br>Celsius（-50-120）<br>Fahrenheit（-122-248） |
| 6 | Voice count | 1-10 |

**Response**

| Operation Code: **0xD998** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::1 bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |

## 1.05 Read Compensation of brightness

| Operation Code: **0XDA00** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::0bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |

**Response**

| Operation Code: **0x DA01** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | High 8bit Compensation of brightness | 1byte |
| 1 | Low 8bit Compensation of brightness | 1byte<br>Scope 0-100<br>Unit Lux |

## 1.06 Modify compensation of brightness

| Operation Code: **0x DA02** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | High 8bit Compensation of brightness | 1byte |
| 1 | Low 8bit Compensation of brightness | 1byte<br>Scope 0-100<br>Unit Lux |

**Response**

| Operation Code: **0XDA03** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::1bytes | | |

| Index of Additional Content | Remark | Value |
|---|---|---|
| **0** | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |

## 1.07 Read statue of sensor

| Operation Code: **0xDB00** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |

**Response**

| Operation Code: **0x**DB01 | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Dry contact 1 | 1byte<br>0 = off<br>1 = on |
| **1** | Dry contact 2 | 1byte<br>0 = off<br>1 = on |
| **2** | Lux sensor | 1byte<br>0 = off<br>1 = on |
| **3** | Temperature | 1byte<br>0 = off<br>1 = on |
| **4** | Motion sensor | 1byte<br>0 = off<br>1 = on |
| **5** | External condition 1 | 1byte<br>0 = off |

| | | |
|---|---|---|
| | | 1 = on |
| **6** | External condition 2 | 1byte<br>0 = off<br>1 = on |
| **7** | High 8bit of delay time | 1byte |
| **8** | Low 8bit of delay time | 1byte |

## 1.08 Read PIR sensitivity

| Operation Code: **0XD828** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:0bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |

**Response**

| Operation Code: **0XD829** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Come in value | 1byte<br>Scope 22-122 |

## 1.09 Modify PIR sensitivity

| Operation Code: **0XD826** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |

| | | |
|---|---|---|
| **0** | Come in value | 1byte<br>Scope 22-122 |

**Response**

| Operation Code: **0XD827** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Come in value | 1byte<br>Scope 22-122 |

## 1.10 Read delay time of PIR

| Operation Code: **0xD818** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:0bytes | | |

**Response**

| Operation Code: **0X**D819 | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | High 8bit of delay time | 1byte<br>Scope 0-255 |
| **1** | Low 8bit of delay time | 1byte<br>Scope 0-255 |

## 1.11 Modify delay time of PIR

| Operation Code: **0xD80C** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |

| Target Device ID: | Specify device ID of target device | scope 0-254 |
|---|---|---|
| **Additional Content** | | |
| LEN of additional content::2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | High 8bit of delay time | 1byte<br>Scope 0-255 |
| 1 | Low 8bit of delay time | 1byte<br>Scope 0-255 |

**Response**

| Operation Code: **0X**D80D | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | High 8bit of delay time | 1byte<br>Scope 0-255 |
| **1** | Low 8bit of delay time | 1byte<br>Scope 0-255 |

## 1.12 Read current brightness

| Operation Code: **0xD992** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:0byte | | |

**Response**

| Operation Code: **0X**D993 | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | High 8bit of current brightness | 1byte |

| | | |
|---|---|---|
| | | Scope 0-255 |
| **1** | Low 8bit of current brightness | 1byte<br>Scope 0-255 |

## 1.13 Enable editing logic page

| Operation Code: **0XDB30** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content::2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Logic block No. | 1byte<br>Scope 0-31 |
| 1 | Flag of logic block is on or off | 1byte<br>0 = off，<br>1 = on |

**Response**

| Operation Code: **0XDB31** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Logic block No. | 1byte<br>Scope 0-31 |
| 1 | Flag of logic block is on or off | 1byte<br>0 = off，<br>1 = on |
| **2** | Flag of success or failure | Success=0xF8<br>Failure=0xF5 |

## 1.14 Enable read logic page

| Operation Code: **0XDB32** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | block number | 0-31 |

**Response**

| Operation Code: **0XDB33** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Logic block No. | 1byte<br>Scope 0-31 |
| 1 | Flag of logic block is on or off | 1byte<br>0 = off，<br>1 = on |

## 1.15 Write remark of logic

| Operation Code: **0XD988** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:13bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Invalid | 1byte<br>0:ctrl_bag<br>1:contition_bag |
| 1 | Logic block No. | 1byte |

| | | |
|---|---|---|
| | | Scope 0-31 |
| 2 | High/ low | 1byte<br>0 = high<br>1 = low |
| 3-13 | Remark data | 10 bytes |

**Response**

| Operation Code: **0XD989** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:4bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Invalid | 1byte<br>0:ctrl_bag<br>1:contition_bag |
| 1 | Logic block No. | 1byte<br>Scope 0-31 |
| 2 | High/ low | 1byte<br>0 = high<br>1 = low |
| 3 | Flag of success or failure | Success=0xF8<br>Failure=0xF5 |

## 1.16 Read remark of logic

| Operation Code: **0XD986** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Invalid | 1byte<br>0:ctrl_bag<br>1:contition_bag |
| 1 | Logic block No. | 1byte<br>Scope 0-31 |
| 2 | High/ low | 1byte<br>0 = high |

| | | |
|---|---|---|
| | | 1 = low |

**Response**

| Operation Code: **0XD987** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:14bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Invalid | 1byte<br>0:ctrl_bag<br>1:contition_bag |
| 1 | Logic block No. | 1byte<br>Scope 0-31 |
| 2 | High/ low | 1byte<br>0 = high<br>1 = low |
| **3** | Flag | Success=0xF8<br>Failure=0xF5 |
| 4-14 | Remark data | 10 bytes |

## 1.17 Read commands of specify logic block

| Operation Code: **0XD982** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Invalid | 1byte<br>0:ctrl_bag<br>1:contition_bag |
| 1 | Logic block No. | 1byte<br>Scope 0-31 |

**Response**

| Operation Code: **0XD983** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |

| **Additional Content** | | |
|---|---|---|
| LEN of additional content:9bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Invalid | 1byte<br>0:ctrl_bag<br>1:contition_bag |
| 1 | Logic block No. | 1byte<br>Scope 0-31 |
| 2 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |
| 3 | Availability 00 address | 1byte<br>Scope 0-255 |
| 4 | Availability 01 address | 1byte<br>Scope 0-255 |
| 5 | obj_bits_00 address | 1byte<br>Scope 0-255 |
| 6 | obj_bits_01 address | 1byte<br>Scope 0-255 |
| 7 | out_High 4bit of time_re_addres | 1byte<br>0-0xFDF1 |
| 8 | out_Low 4bit of time_re_addres | |

## 1.18 Setting condition of specify logic block

| Operation Code: **0XD984** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:8bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Invalid | 1byte<br>0:ctrl_bag<br>1:contition_bag |
| **1** | Logic block No. | 1byte<br>Scope 0-31 |
| **2** | Availability 00 address | 1byte<br>Scope 0-255 |
| **3** | Availability 01 address | 1byte |

| | | |
|---|---|---|
| | | Scope 0-255 |
| **4** | obj_bits_00 address | 1byte<br>Scope 0-255 |
| **5** | obj_bits_01 address | 1byte<br>Scope 0-255 |
| **6** | High 8bit of output time | 2bytes<br>Scope 0-0xFDF1 |
| **7** | Low 8bit of output time | |

**Response**

| Operation Code: **0XD985** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Invalid | 1byte<br>0:ctrl_bag<br>1:contition_bag |
| 1 | Logic block No. | 1byte<br>Cope 0-31 |
| 2 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |

## 1.19 Read sensor enable or disenable

| Operation Code: **0XD994** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:0bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |

**Response**

| Operation Code: **0XD995** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |

| Additional Content | | |
|---|---|---|
| LEN of additional content:7bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Dry contact 1 | 1byte<br>0 = disabled<br>1 = enabled |
| 1 | Dry contact 2 | 1byte<br>0 = disabled<br>1 = enabled |
| 2 | External condition 1 | 1byte<br>0 = disabled<br>1 = enabled |
| 3 | External condition 2 | 1byte<br>0 = disabled<br>1 = enabled |
| 4 | Lux sensor | 1byte<br>0 = disabled<br>1 = enabled |
| 5 | Temperature | 1byte<br>0 = disabled<br>1 = enabled |
| 6 | Motion sensor | 1byte<br>0 = disabled<br>1 = enabled |

## 1.20 Read brightness rang setting of specify logic block

| Operation Code: **0XD990** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Logic block No. | 0-31 |

**Response**

| Operation Code: **0XD991** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:5bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Logic block No. | 1byte<br>0-31 |
| **1** | High 8bit of Max brightness value | 2bytes<br>Scope 0-5000 |
| **2** | Low 8bit of Max brightness value | |
| **3** | High 8bit of Min brightness value | 2bytes<br>Scope 0-5000 |
| **4** | Low 8bit of Min brightness value | |

## 1.21 Modify brightness rang setting of specify logic block

| Operation Code: **0XD98E** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:5bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Logic block No. | 1byte<br>0-31 |
| **1** | High 8bit of Max brightness value | 2bytes<br>Scope 0-5000 |
| **2** | Low 8bit of Max brightness value | |
| **3** | High 8bit of Min brightness value | 2bytes<br>Scope 0-5000 |
| **4** | Low 8bit of Min brightness value | |

**Response**

| Operation Code: **0XD98F** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1byte | | |

| Index of Additional Content | Remark | Value |
|---|---|---|
| 0 | Flag of success or failure | Success=0xF8<br>Failure=0xF5 |

## 1.22 Read commands of specify channel for logic block

| Operation Code: **0XD98A** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Logic block No. | 1byte<br>Scope 0-31 |
| **1** | Channel address | 1byte<br>Scope 0-9 |

**Response**

| Operation Code: **0XD98B** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:9bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Logic block No. | 1byte<br>Scope 0-31 |
| 1 | Channel address | 1byte<br>Scope 0-9 |
| 2 | Net ID | 1byte<br>Scope 0-255 |
| 3 | Device ID | 1byte<br>Scope 0-255 |
| 4 | Parameters 1 | 1byte |
| 5 | Parameters 2 | 1byte |
| 6 | High 8 bits of Running time | Scope of Running time is 0-3600s |

| | | |
|---|---|---|
| | | H=(Running time) div 256 |
| 7 | Low 8 bits of Running time | L=(Running time) Mod 256 |
| 8 | Object type | 1byte |

## 1.23 Write commands of specify channel for logic block

| Operation Code: **0XD98C** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:9bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Logic block No. | 1byte<br>Scope 0-31 |
| 1 | Channel address | 1byte<br>Scope 0-9 |
| 2 | Net ID | 1byte<br>Scope 0-255 |
| 3 | Device ID | 1byte<br>Scope 0-255 |
| 4 | Parameters 1 | 1byte |
| 5 | Parameters 2 | 1byte |
| 6 | High 8 bits of Running time | Scope of Running time is 0-3600s<br>H=(Running time) div 256 |
| 7 | Low 8 bits of Running time | L=(Running time) Mod 256 |
| 8 | Object type | 1byte |

**Response**

| Operation Code: **0XD98D** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Logic block No. | 1byte<br>Scope 0-31 |
| **1** | Channel address | 1byte |

| | | |
|---|---|---|
| | | Scope 0-9 |

# 2 9in1 security mode

## 2.01 Read security remark

| Operation Code: **0XDB0A** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Object No. | 1byte<br>Scope 0-2 |

**Response**

| Operation Code: **0XDB0B** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:20bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0-19 | Remark data | 20bytes |

## 2.02 Write security remark

| Operation Code: **0XDB08** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:20bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0-19 | Remark data | 20bytes |

**Response**

| Operation Code: **0XDB09** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Object No. | 0-2 |
| **1** | Flag of success or failure | Success=0xF8<br>Failure=0xF5 |

## 2.03 Read settings of security

| Operation Code: **0XDB06** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Obj num | 0-2 |

**Response**

| Operation Code: **0XDB07** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:20bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Obj num | 0-2 |
| 1 | Enabled | 0-2 |
| 2 | Net ID of Security modul | 0-255 |
| 3 | Devices ID of Security modu | 0-255 |
| 4 | Area | 0-8 |
| 5 | 24 hours active zone | 0-255 |
| 6 | Security modul | 0-255 |
| 7 | Delay time value | 0-255 |
| 8 | Type | 12 |

## 2.04 Write settings of security

| Operation Code: **0XDB04** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:9bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Obj num | 0-2 |
| 1 | Enabled | 0-2 |
| 2 | Net ID of Security modul | 0-255 |
| 3 | Devices ID of Security modu | 0-255 |
| 4 | Area | 0-8 |
| 5 | 24 hours active zone | 0-255 |
| 6 | Security modul | 0-255 |
| 7 | Delay time value | 0-255 |
| 8 | Type | 12 |

**Response**

| Operation Code: **0XDB05** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Obj num | 0-2 |
| **1** | Flag | Success=0xF8<br>Failure=0xF5 |

# 3 9in1 IR sending mode

## 3.01 Delete data of all remote buttons

| Operation Code: **0XD9E0** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |

| | | |
|---|---|---|
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:0byte | | |

**Response**

| Operation Code: **0XD9E1** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | Success=0xF8<br>Failure=0xF5 |

## 3.02 Delete data of specify button of remote

| Operation Code: **0XD904** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Button No. | 1 byte |

**Response**

| Operation Code: **0XD905** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | MODIFY_FAULT_reason | 0-2 |
| 1 | Flag | Success=0xF8<br>Failure=0xF5 |
| 2 | key_name | 1 byte |

# 3.03 Write remark of remote button

| Operation Code: **0XD90E** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:13bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | IR No. | 0-249 |
| **1** | High or low | 1byte<br>0 = remark use byte 3 – byte12<br>1 = remark use byte 13 – byte22 |
| **2-22** | Remark data | 10 byte |

**Response**

| Operation Code: **0XD90F** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:4bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |
| 1 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |
| 2 | IR No. | 1byte<br>Scope 0-249 |
| 3 | High/low | 1byte<br>0 = remark use byte 3 – byte12<br>1 = remark use byte 13 – byte22 |

| | | |
|---|---|---|
| | | |

## 3.04 Set up remote button

| Operation Code: **0XD900** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | IR No. | 1byte<br>Scope 0-249 |
| **1** | High 8bits of remote bag data | 1 byte |
| **2** | Low 8bits of remote bag data | 1 byte |

**Response**

| Operation Code: **0XD901** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag | Success=0xF8<br>Failure=0xF5 |
| 1 | Flag | Success=0xF8<br>Failure=0xF5 |
| 2 | IR num | 0-249 |

## 3.05 Download IR data bag

| Operation Code: **0XD906** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:5-16bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |

| | | |
|---|---|---|
| **0** | IR name | 1byte<br>Scope 0-249 |
| **1** | Bag No. | 1byte<br>Scope 0-255 |
| **2** | High 8bits of Data length | 1byte |
| **3** | Low 8bits of Data length | 1byte |
| **4-15** | IR data | |

**Response**

| Operation Code: **0XD907** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |
| 1 | Reason of failure | 1byte<br>Success=0x8c<br>Failure=0x8d |
| 2 | Package serial number | 1-255 |

## 3.06 PC send IR data

| Operation Code: **0XD912** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | IR No. | 1byte<br>Scope 0-249 |
| **1** | Button push state | 1byte<br>Scope 0-2 |

**Response**

| Operation Code: **0XD913** |
|---|

| | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:4bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Flag of success or failure | Success=0xF8<br>Failure=0xF5 |
| 1 | Flag | Success=0xF8<br>Failure=0xF5 |
| 2 | IR No. | 1byte<br>Scope 0-249 |
| 3 | Button push state | 1byte<br>Scope 0-2 |

# 4 Remote button mode

## 4.01 Read remark of Remote button mode

| | | |
|---|---|---|
| Operation Code: **0XD93A** | | |
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Remote button No. | 0-55 |

**Response**

| | | |
|---|---|---|
| Operation Code: **0XD93B** | | |
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |

| | | |
|---|---|---|
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:21bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Remote button No. | 0-55 |
| 1-20 | Remark | 20 byte |

## 4.02 Write remark of Remote button mode

| | | |
|---|---|---|
| Operation Code: **0XD93C** | | |
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:21bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Remote button No. | 0-55 |
| 1-20 | Remark | 20 byte |

**Response**

| | | |
|---|---|---|
| Operation Code: **0XD93D** | | |
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Remote button No. | 0-55 |
| **1** | Flag | Success=0xF8<br>Failure=0xF5 |

# 4.03 Read mode of remote button

| Operation Code: **0XD940** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:1bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Remote button No. | 0-55 |

**Response**

| Operation Code: **0XD941** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Remote button No. | 0-55 |
| 1 | Remote button mode | 0-255 |

# 4.04 Write mode of remote button

| Operation Code: **0XD942** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:21bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| 0 | Remote button No. | 0-55 |
| 1-20 | Remote button mode | 0-255 |

**Response**

| Operation Code: **0XD943** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |

| | | |
|---|---|---|
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Remote button No. | 0-55 |
| **1** | Flag | Success=0xF8<br>Failure=0xF5 |

## 4.05 Read settings of target specify channel

| Operation Code: **0XD814** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:3bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Sensor type | 1byte<br>0- |
| **1** | Block no(IR no) | 1byte<br>Scope 0-255 |
| **2** | Chang no | 1byte<br>Scope 0-19 |

**Response**

| Operation Code: **0XD815** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:10bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Sensor type | 1byte<br>0- |
| **1** | Block no(IR no) | 1byte<br>Scope 0-255 |
| **2** | Chang no | 1byte<br>Scope 0-19 |

| | | |
|---|---|---|
| **3** | Net ID | 1byte<br>Scope 0-255 |
| **4** | Device ID | 1byte<br>Scope 0-255 |
| **5** | Zone No. | 1byte<br>Scope 0-255 |
| **6** | Channel | 1byte<br>Scope 0-255 |
| **7** | High 4bit of time | 0-255 |
| **8** | Low 4bit of time | 0-255 |
| **9** | Object type | 1byte<br>Scope 0-255 |

## 4.06 Modify settings of target specify channel

| Operation Code: **0XD80A** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Sensor type | 1byte<br>0- |
| **1** | Block no(IR no) | 1byte<br>Scope 0-255 |
| **2** | Chang no | 1byte<br>Scope 0-19 |
| **3** | Net ID | 1byte<br>Scope 0-255 |
| **4** | Device ID | 1byte<br>Scope 0-255 |
| **5** | Zone No. | 1byte<br>Scope 0-255 |
| **6** | Channel | 1byte<br>Scope 0-255 |
| **7** | High 8bit of time | 1byte |
| **8** | Low 8bit of time | 1byte |
| **9** | Object type | 1byte |

| | | |
|---|---|---|
| | | Scope 0-255 |

**Response**

| Operation Code: **0XD80B** | | |
|---|---|---|
| Target Subnet ID: | Specify subnet ID of target device | scope 0-254 |
| Target Device ID: | Specify device ID of target device | scope 0-254 |
| **Additional Content** | | |
| LEN of additional content:2bytes | | |
| **Index of Additional Content** | **Remark** | **Value** |
| **0** | Sensor type | 1byte<br>0- |
| **1** | Block no(IR no) | 1byte<br>Scope 0-255 |
| **2** | Chang no | 1byte<br>Scope 0-19 |
| **3** | Net ID | 1byte<br>Scope 0-255 |
| **4** | Device ID | 1byte<br>Scope 0-255 |
| **5** | Zone No. | 1byte<br>Scope 0-255 |
| **6** | Channel | 1byte<br>Scope 0-255 |
| **7** | High 8bit of time | 1byte |
| **8** | Low 8bit of time | 1byte |
| **9** | Object type | 1byte<br>Scope 0-255 |
| **10** | Flag of success or failure | 1byte<br>Success=0xF8<br>Failure=0xF5 |