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Slave Control API

RS485

- [BS2_GetSlaveDevice](#): RS485
- [BS2_SetSlaveDevice](#): RS485
- [BS2_GetSlaveExDevice](#): CoreStation RS485
- [BS2_SetSlaveExDevice](#): CoreStation RS485
- [BS2_SearchDevicesCoreStation](#): CoreStation
- [BS2_SearchDevicesCoreStationEx](#): [+ 2.6.3] CoreStation (host ip)
- [BS2_GetDevicesCoreStation](#): CoreStation
- [BS2_AddOsdpStandardDevice](#): [+ 2.9.1] OSDP
- [BS2_GetOsdpStandardDevice](#): [+ 2.9.1] OSDP
- [BS2_GetAvailableOsdpStandardDevice](#): [+ 2.9.1] OSDP
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- [BS2_RemoveOsdpStandardDevice](#): [+ 2.9.1] OSDP
- [BS2_GetOsdpStandardDeviceCapability](#): [+ 2.9.1] OSDP
- [BS2_SetOsdpStandardDeviceSecurityKey](#): [+ 2.9.1] OSDP
- [BS2_SetSlaveBaudrate](#): [+ 2.9.6] RS485 baudrate

SDK가 가

BS2Rs485SlaveDevice

```
typedef struct {
    uint32_t deviceID;
    uint16_t deviceType;
    uint8_t enableOSDP;
    uint8_t connected;
} BS2Rs485SlaveDevice;
```

1. deviceID
2. deviceType

3. *enableOSDP*

flag

.
4. *connected*

가

flag

.

BS2Rs485SlaveDeviceEX

```
typedef struct {
    uint32_t deviceID;
    uint16_t deviceType;
    uint8_t enableOSDP;
    uint8_t connected;
    uint8_t channelInfo;
    uint8_t reserved[3];
} BS2Rs485SlaveDeviceEX;
```

1. *deviceID*

.
2. *deviceType*

.
3. *enableOSDP*

flag

.
4. *connected*

가

flag

.
5. *channelInfo*

Channel

.
6. *reserved*

.
- BS2OsdpStandardDevice**
- ```
typedef struct {
 BS2_DEVICE_ID deviceID; ///< 4 bytes
 BS2_DEVICE_TYPE deviceType; ///< 2 bytes
 BS2_B00L enableOSDP; ///< 1 byte
 BS2_B00L connected; ///< 1 byte

 uint8_t channelInfo; ///< 1 byte
 uint8_t osdpID; ///< 1 byte
 BS2_B00L supremaSearch; ///< 1 byte
 BS2_B00L activate; ///< 1 byte
}
```
- BioStar Device SDK - <https://kb.supremainc.com/kbtest/>

```

 BS2_B00L useSecure; ///< 1 byte
 uint8_t vendorCode[3]; ///< 3 bytes

 BS2_VERSION fwVersion; ///< 4 bytes

 uint8_t modelName; ///< 1 byte
 uint8_t modelVersion; ///< 1 byte
 BS2_B00L readInfo; ///< 1 byte
 uint8_t reserved[25]; ///< 25 byte (packing)
} BS20sdpStandardDevice; ///< 48 bytes

```

1. *deviceId*

OSDP .

2. *deviceType*

BS2\_DEVICE\_TYPE\_3RD\_OSDP\_DEVICE .

3. *enableOSDP*

true .

4. *connected*

true OSDP 가 .

5. *channelInfo*

. CoreStation40 0~4 5 가 ,

6. *osdpID*

OSDP .

7. *supremaSearch*

OSDP RS485 , false .

8. *activate*

, ,

9. *useSecure*

,

[BS2\\_SetOsdpStandardDeviceSecurityKey](#) .

10. *vendorCode*

Vendor .

11. *fwVersion*

OSDP FW .

12. *modelName*

OSDP .

13. *modelVersion*

OSDP .

14. readInfo
- vendorCode    fwVersion, model    , OSDP
- 가 master
15. reserved

BS2OsdpStandardDeviceAvailable

```
typedef struct {
 uint8_t channelIndex; ///< 1 byte
 BS2_OSDP_CHANNEL_TYPE channelType; ///< 1 byte
 uint8_t maxOsdpDevice; ///< 1 byte
 uint8_t numOsdpAvalibleDevice; ///< 1 byte
 BS2_DEVICE_ID deviceIDs[8]; ///< 4 x 8 = 32
 bytes
} BS2osdpStandardChannelInfo; ///< 36 bytes

typedef struct {
 uint8_t numOfChannel; ///< 1 byte
 uint8_t reserved[3]; ///< 3 bytes
 BS2osdpStandardChannelInfo channels[BS2_RS485_MAX_CHANNELS_EX]; ///< 36
x 8 = 288 bytes
 uint8_t reserved1[32]; ///< 32 bytes
} BS2osdpStandardDeviceAvailable; ///< 288 bytes + 36
```

1. channelIndex
- OSDP    가
2. channelType
- RS485    가
- CoreStation40    ,    가    0~4    5    ,
- OSDP    가    가    , Suprema    , OSDP    0
- channelType    1    Suprema    가    ,    Suprema    ,
- OSDP    가    ,    OSDP    , channelType
- 2    . Suprema    가    .
- CoreStation40    Suprema    , OSDP
- OSDP    가    가    2    ,
- channelType    3    가

|   |              |
|---|--------------|
|   |              |
| 0 | Normal       |
| 1 | Suprema      |
| 2 | OSDP         |
| 3 | OSDP    FULL |

3. *maxOsdpDevice*

channelType 1 가 32 , 2 3 2 .

4. *numOsdpAvailibleDevice*

가 .

5. *deviceIDs*

( ) .

6. *numOfChannel*

. CoreStation40 5 .

7. *reserved*

.

8. *channels*

OSDP

8 가 , CoreStation40 5 가 0~4

9. *reserved1*

.

**BS2OsdpStandardNotify**

```
typedef struct {
 BS2_DEVICE_ID deviceID; ///< 4 bytes
 BS2_DEVICE_TYPE deviceType; ///< 2 bytes
 BS2_B00L enableOSDP; ///< 1 byte
 BS2_B00L connected; ///< 1 byte

 uint8_t channelInfo; ///< 1 byte
 uint8_t osdpID; ///< 1 byte
 BS2_B00L supremaSearch; ///< 1 byte
 BS2_B00L activate; ///< 1 byte

 BS2_B00L useSecure; ///< 1 byte
 uint8_t vendorCode[3]; ///< 3 bytes

 BS2_VERSION fwVersion; ///< 4 bytes

 uint8_t modelNumber; ///< 1 byte
 uint8_t modelVersion; ///< 1 byte
 BS2_B00L readInfo; ///< 1 byte
 uint8_t reserved[5]; ///< 5 bytes (packing)
} BS2OsdpStandardNotify; ///< 48 bytes
```

1. *deviceID*

OSDP .

2. *deviceType*  
BS2\_DEVICE\_TYPE\_3RD\_OSDP\_DEVICE
3. *enableOSDP*  
true
4. *connected*  
true    OSDP    가
5. *channelInfo*  
CoreStation40    0~4    5    가 ,
6. *osdpID*  
OSDP
7. *supremaSearch*  
OSDP    RS485    ,    false
8. *activate*  
,
9. *useSecure*

[BS2\\_SetOsdpStandardDeviceSecurityKey](#)

10. *vendorCode*  
Vendor
11. *fwVersion*  
OSDP    FW
12. *modelName*  
OSDP
13. *modelVersion*  
OSDP
14. *readInfo*  
vendorCode    fwVersion, model    , OSDP  
가 master
15. *reserved*

**BS2OsdpStandardDeviceAdd**

```
typedef struct {
 uint8_t osdpID; ///< 1 byte
```

```

uint8_t activate; ///< 1 byte
uint8_t useSecureSession; ///< 1 byte
uint8_t deviceType; ///< 1 byte
BS2_DEVICE_ID deviceID; ///< 4 bytes
} BS2sdpStandardDeviceAdd; ///< 8 bytes

```

1. *osdpID*

OSDP . 가 0~126 .  
 . ,  
 . 가 .

2. *activate*

.  
 , false  
 .

3. *useSecureSession*

. ,

[BS2\\_SetOsdpStandardDeviceSecurityKey](#)4. *deviceType*

. BS2\_DEVICE\_TYPE\_3RD\_OSDP\_DEVICE .

5. *deviceID*

. 0 master 가 .

**BS2OsdpStandardDeviceUpdate**

```

typedef struct {
uint8_t osdpID; ///< 1 byte
uint8_t activate; ///< 1 byte
uint8_t useSecureSession; ///< 1 byte
uint8_t deviceType; ///< 1 byte
BS2_DEVICE_ID deviceID; ///< 4 bytes
} BS2sdpStandardDeviceUpdate; ///< 8 bytes

```

1. *osdpID*

OSDP . 가 0~126 .  
 . ,  
 . 가 .

2. *activate*

.  
 , false  
 .

3. *useSecureSession*

. ,

## BS2\_SetOsdpStandardDeviceSecurityKey

### 4. deviceType

BS2\_DEVICE\_TYPE\_3RD\_OSDP\_DEVICE

### 5. deviceID

## BS2OsdpStandardDeviceCapability

```
typedef struct {
 uint8_t compliance;
 uint8_t count;
} BS2OsdpStandardDeviceCapabilityItem;

typedef struct {
 BS2OsdpStandardDeviceCapabilityItem input; ///< 2 bytes
 BS2OsdpStandardDeviceCapabilityItem output; ///< 2 bytes
 BS2OsdpStandardDeviceCapabilityItem led; ///< 2 bytes
 BS2OsdpStandardDeviceCapabilityItem audio; ///< 2 bytes
 BS2OsdpStandardDeviceCapabilityItem textOutput; ///< 2 bytes
 BS2OsdpStandardDeviceCapabilityItem reader; ///< 2 bytes

 uint16_t recvBufferSize; ///< 2 bytes
 uint16_t largeMsgSize; ///< 2 bytes

 uint8_t osdpVersion; ///< 1 byte
 uint8_t cardFormat; ///< 1 byte
 uint8_t timeKeeping; ///< 1 byte
 uint8_t canCommSecure; ///< 1 byte

 BS2_B00L crcSupport; ///< 1 byte
 BS2_B00L smartCardSupport; ///< 1 byte
 BS2_B00L biometricSupport; ///< 1 byte
 BS2_B00L securePinEntrySupport; ///< 1 byte

 uint8_t reserved[4]; ///< 4 bytes
} BS2OsdpStandardDeviceCapability; ///< 28 bytes
```

### 1. compliance

PD (function) (compliance level) , OSDP  
input, output, led, audio, textOutput

### 2. count

PD (function) (number of objects) , 가  
OSDP

### 3. input

( )

#### 4. *output*

##### 5. *led*

LED

##### 6. *audio*

Buzzer

#### 7. *textOutput*

#### 8. *reader*

, count

#### 9. *recvBufferSize*

PD가

#### 10. *largeMsgSize*

PD가

#### 11. *osdpVersion*

OSDP

#### 12. *cardFormat*

, 01, 02, 03

. OSDP

compliance level

#### 13. *timeKeeping*

PD

. OSDP 2.2

#### 14. *canCommSecure*

#### 15. *crcSupport*

#### 16. *smartCardSupport*

#### 17. *biometricSupport*

가 가

#### 18. *securePinEntrySupport*

SPE(Secure PIN Entry)

#### 19. *reserved*

## BS2OsdpStandardDeviceResult

```
typedef struct {
 BS2_DEVICE_ID deviceID;
 BS2_OSDP_RESULT result;
} BS2osdpStandardDeviceResult;
```

1. *deviceID*
- .
2. *result*
- OSDP                   가                   .

|   |         |
|---|---------|
|   |         |
| 0 | Fail    |
| 1 | Success |

## BS2OsdpStandardDeviceSecurityKey

```
typedef struct {
 uint8_t key[BS2_OSDP_STANDARD_KEY_SIZE];
 uint8_t reserved[32];
} BS2osdpStandardDeviceSecurityKey;
```

1. *key*
- OSDP                   16byte                   .
2. *reserved*
- .

From:

<https://kb.supremainc.com/kbtest/> - **BioStar Device SDK**

Permanent link:

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