

Slave Control API 1

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Slave Control API

RS485

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- [BS2_SearchDevicesCoreStationEx](#): [+ 2.6.3] CoreStation
(host ip)
- [BS2_GetDevicesCoreStation](#): CoreStation

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

    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[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 master15. *reserved*

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. modelNumber

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
} BS2osdpStandardDeviceAdd;                            ///< 8 bytes
```

1. osdpID

OSDP 가 0~126

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
} BS2OsdpStandardDeviceUpdate;   ///< 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

```

```

BS20sdpStandardDeviceCapabilityItem    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
} BS20sdpStandardDeviceCapability;   ///< 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*

compliance level , 01, 02, 03 . OSDP

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	Success
1	Fail
2	Not available

BS2OsdpStandardDeviceSecurityKey

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

```
} BS20sdpStandardDeviceSecurityKey;
```

1. *key*

OSDP 16byte .

2. *reserved*

From:

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

Permanent link:

https://kb.supremainc.com/kbtest/doku.php?id=ko:slave_control_api&rev=1675926597

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