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Device API

API that controls the device information or upgrades the firmware.

- [BS2_GetDeviceInfo](#): Gets the device information.
- [BS2_GetDeviceInfoEx](#): [+ 2.6.0] Gets additional device information.
- [BS2_GetDeviceTime](#): Gets the device time.
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- [BS2_UpgradeFirmware](#): Upgrades the firmware.
- [BS2_UpdateResource](#): Updates the resource.
- [BS2_GetSpecifiedDeviceInfo](#): [+ 2.6.3] Gets specified device information.
- [BS2_GetAuthOperatorLevelEx](#): [+ 2.6.3] Gets specified device operator. (Support operator up to 1000)
- [BS2_GetAllAuthOperatorLevelEx](#): [+ 2.6.3] Gets all device operators. (Support operator up to 1000)
- [BS2_SetAuthOperatorLevelEx](#): [+ 2.6.3] Sets device operator. (Support operator up to 1000)
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- [BS2_RemoveAllAuthOperatorLevelEx](#): [+ 2.6.3] Removes all device operators. (Support operator up to 1000)
- [BS2_GetDeviceCapabilities](#): [+ 2.8] Gets available function information of the device.

Structure

BS2SimpleDeviceInfo

```
typedef struct
{
    uint32_t id;
    uint16_t type;
    uint8_t connectionMode;
    uint32_t ipv4Address;
    uint16_t port;
    uint32_t maxNumOfUser;
    uint8_t userNameSupported;
    uint8_t userPhotoSupported;
    uint8_t pinSupported;
    uint8_t cardSupported;
    uint8_t fingerSupported;
    uint8_t faceSupported;
    uint8_t wlanSupported;
```

```

uint8_t tnaSupported;
uint8_t triggerActionSupported;
uint8_t wiegandSupported;
uint8_t imageLogSupported;
uint8_t dnsSupported;
uint8_t jobCodeSupported;
uint8_t wiegandMultiSupported;
uint8_t rs485Mode;
uint8_t sslSupported;
uint8_t rootCertExist;
uint8_t dualIDSupported;
uint8_t useAlphanumericID;
uint32_t connectedIP;
uint8_t phraseCodeSupported;
uint8_t card1xSupported;
uint8_t systemExtSupported;
uint8_t voipSupported;
}BS2SimpleDeviceInfo;

```

1. *id*

The device identifier which is always above 1.

2. *type*

Code value of device type.

Value	Description
0x00	Unknown Type
0x01	BioEntry Plus
0x02	BioEntry W
0x03	BioLite Net
0x04	Xpass
0x05	Xpass S2
0x06	Secure IO 2
0x07	DM-20
0x08	BioStation 2
0x09	BioStation A2
0x0A	FaceStation 2
0x0B	IO Device
0x0C	BioStation L2
0x0D	BioEntry W2
0x0E	CoreStation 40
0x0F	Output Module
0x10	Input Module
0x11	BioEntry P2
0x12	BioLite N2
0x13	XPass2
0x14	XPass S3
0x15	BioEntry R2
0x16	XPass D2

Value	Description
0x17	Door Module 21
0x18	XPass D2 Keypad
0x19	FACELITE
0x1A	XPass2 Keypad
0x1B	XPass D2 Revision
0x1C	XPass D2 Keypad Revision
0x1D	FaceStation F2 Finger
0x1E	FaceStation F2
0x1F	XStation 2 QR
0x20	XStation 2
0x21	Input Module 120
0x22	XStation 2 Finger

3. **connectionMode**

It indicates the connection mode between the BioStar application and device which is separated by the subject of the connection as direct mode(0x0) and server mode(0x1). The BioStar application connects to the device in direct mode, and the device connects to the BioStar application in server mode. The default settings for the devices are direct mode, and to change the connection mode refer to [IP Config](#).

4. **ipv4Address**

IP address of the selected device.

5. **port**

TCP port number of the selected device.

6. **maxNumOfUser**

Maximum capacity of users that can be stored in the device.

7. **userNameSupported**

Flag that notifies whether the device supports user name.

8. **userPhotoSupported**

Flag that notifies whether the device supports user profile picture.

9. **pinSupported**

Flag that notifies whether the device supports PIN.

10. **cardSupported**

Flag that notifies whether the device supports Smart card authentication.

11. **fingerSupported**

Flag that notifies whether the device supports finger authentication.

12. **faceSupported**

Flag that notifies whether the device supports face recognition.

13. **wlanSupported**

Flag that notifies whether the device supports wireless LAN.

14. *tnaSupported*

Flag that notifies whether the device supports time and attendance.

15. *triggerActionSupported*

Flag that notifies whether the device supports trigger action.

16. *wiegandSupported*

Flag that notifies whether the device supports wiegand.

17. *imageLogSupported*

Flag that notifies whether the device supports image logs.

18. *dnsSupported*

Flag that notifies whether the device supports DNS.

19. *jobCodeSupported*

Flag that notifies whether the device supports job codes.

20. *wiegandMultiSupported*

Flag that notifies whether the device supports Multi-Wiegand.

21. *rs485Mode*

RS-485 mode of the device.

22. *sslSupported*

Flag that notifies whether the device supports SSL communication.

23. *rootCertExist*

Flag that notifies whether the device has a root certificate.

24. *dualIDSupported*

Flag that notifies whether the device supports alphanumeric ID.

25. *useAlphanumericID*

Flag that notifies whether the device is currently using Alphanumeric ID.

26. *connectedIP*

IP address where the device is connected to. (0xFFFFFFFF if disconnected)

27. *phraseCodeSupported*

Flag that notifies whether the device supports personal messages.

28. *card1xSupported*

Flag that notifies whether the device supports reading 1.x ToC cards.

29. *systemExtSupported*

Flag that notifies whether the device supports configuring RS-485 keys.

30. *voipSupported*

Flag that notifies whether the device supports VoIP.

BS2SimpleDeviceInfoEx

Retrieves BS2SimpleDeviceInfo and supported information.

```
typedef struct
{
    enum
    {
        BS2_SUPPORT_RS485EX      = 0x00000001,
        BS2_SUPPORT_CARDEX       = 0x00000002,
        BS2_SUPPORT_DST          = 0x00000004,
        BS2_SUPPORT_DESFIREEX    = 0x00000008,
        BS2_SUPPORT_FACE_EX      = 0x00000010,

        BS2_SUPPORT_FINGER_SCAN  = 0x00010000,
        BS2_SUPPORT_FACE_SCAN    = 0x00020000,
        BS2_SUPPORT_FACE_EX_SCAN = 0x00040000,

        BS2_SUPPORT_ALL          = BS2_SUPPORT_RS485EX | BS2_SUPPORT_CARDEX |
        BS2_SUPPORT_DST | BS2_SUPPORT_DESFIREEX | BS2_SUPPORT_FACE_EX |
        BS2_SUPPORT_FINGER_SCAN | BS2_SUPPORT_FACE_SCAN | BS2_SUPPORT_FACE_EX_SCAN,
    };
    uint32_t supported;
    uint8_t reserved[4];
}BS2SimpleDeviceInfoEx;
```

1. supported

The current device additionally obtains information beyond the functionality provided by BS2SimpleDeviceInfo.

By bit masking with the values defined below, you can check if it is supported.

Definition	Value	Description
BS2_SUPPORT_RS485EX	0x00000001	Whether RS485 extensions are supported (In case of CoreStation 40)
BS2_SUPPORT_CARDEX	0x00000002	Whether iClass SEOS card is used
BS2_SUPPORT_DST	0x00000004	Whether daylight savings time is used
BS2_SUPPORT_DESFIREEX	0x00000008	Whether DesFire advanced setting is supported [+2.6.4]
BS2_SUPPORT_FACE_EX	0x00000010	Whether support face matching for FSF2 [+ V2.7.1]
BS2_SUPPORT_FINGER_SCAN	0x00010000	Whether support fingerprint scan [+ V2.7.1]
BS2_SUPPORT_FACE_SCAN	0x00020000	Whether support face scan for FS2 and FL [+ V2.7.1]
BS2_SUPPORT_FACE_EX_SCAN	0x00040000	Whether support face scan for FSF2 [+ V2.7.1]
BS2_SUPPORT_ALL	0x0000000F	Whether to provide additional full information

2. reserved
Reserved space.

BS2ResourceElement

```
typedef struct
{
    uint8_t type;
    uint32_t numResData;
    struct {
        uint8_t index;
        uint32_t dataLen;
        uint8_t* data;
    } resData[128];
}BS2ResourceElement;
```

1. type
Resource data type.

Value	Description	Supported data format
0	UI(Langauge pack)	Suprema language pack
1	Notice message	UTF-8 string
2	Image(Background)	PNG
3	Slide image	PNG
4	Sound	WAVE

2. numResData
Number of resource data.

3. index
Resource index number.

4. dataLen
Resource data length.

5. data
Binary resource data.

BS2IPv6DeviceInfo

```
enum {
    BS2_MAX_IPV6_ALLOCATED_ADDR = 8,
};

typedef struct
{
    BS2_DEVICE_ID id;
```

```

uint8_t reserved[1];
uint8_t bIPv6Mode;
char ipv6Address[BS2_IPV6_ADDR_SIZE];
uint16_t portV6;
char connectedIPv6[BS2_IPV6_ADDR_SIZE];
uint8_t numOfAllocatedAddressV6;
char
allocatedIpAddressV6[BS2_IPV6_ADDR_SIZE][BS2_MAX_IPV6_ALLOCATED_ADDR];
}BS2IPv6DeviceInfo;

```

1. *id*

Device ID

2. *reserved*

Reserved space

3. *bIPv6Mode*

Flag to determine whether to work IPv6 mode or not.

4. *ipv6Address*

IPv6 address of device

5. *portV6*

IPv6 port of device

6. *connectedIPv6*

IPv6 address of server which device is connected.

7. *numOfAllocatedAddressV6*

Number of IPv6 addresses currently allocated to device. 8. *allocatedIpAddressV6*

IPv6 addresses currently allocated to device.

BS2AuthOperatorLevel

```

typedef struct {
    char userID[BS2_USER_ID_SIZE];
    uint8_t level;
    uint8_t reserved[3];
} BS2Operator;

typedef BS2Operator BS2AuthOperatorLevel;

```

1. *userID*

User ID

2. *level*

Sets operator level when user authenticates.

Value	Description
0	No auth
1	Administrator level
2	System configuration level
3	User information level

3. *reserved*

Reserved space

BS2DeviceCapabilities

[+ 2.8]

```
typedef struct {
    uint32_t maxUsers;                ///< 4 bytes
    uint32_t maxEventLogs;            ///< 4 bytes
    uint32_t maxImageLogs;            ///< 4 bytes
    uint32_t maxBlacklists;           ///< 4 bytes
    uint32_t maxOperators;            ///< 4 bytes
    uint32_t maxCards;                ///< 4 bytes
    uint32_t maxFaces;                ///< 4 bytes
    uint32_t maxFingerprints;         ///< 4 bytes
    uint32_t maxUserNames;            ///< 4 bytes
    uint32_t maxUserImages;           ///< 4 bytes
    uint32_t maxUserJobs;             ///< 4 bytes
    uint32_t maxUserPhrases;          ///< 4 bytes
    uint8_t maxOutputPorts;           ///< 1 byte
    uint8_t maxRelays;                ///< 1 byte
    uint8_t maxRS485Channels;         ///< 1 byte

    uint8_t cameraSupported: 1;
    uint8_t tamperSupported: 1;
    uint8_t wlanSupported: 1;
    uint8_t displaySupported: 1;
    uint8_t thermalSupported: 1;
    uint8_t maskSupported: 1;
    uint8_t faceExSupported: 1;
    uint8_t unused: 1;

    union {
        uint32_t mask;                ///< 4 bytes
        struct {
            uint32_t EM: 1;
            uint32_t HIDProx: 1;
            uint32_t MifareFelica: 1;
            uint32_t iClass: 1;
            uint32_t ClassicPlus: 1;
            uint32_t DesFireEV1: 1;
            uint32_t SRSE: 1;
        };
    };
};
```

```
uint32_t SEOS: 1;
uint32_t NFC: 1;
uint32_t BLE: 1;
uint32_t reserved: 21;
uint32_t useCardOperation: 1;
};
} cardSupported;

struct {
    BS2_B00L extendedMode;          ///< 1 byte
    union {
        uint8_t mask;              ///< 1 byte
        struct {
            uint8_t card: 1;
            uint8_t fingerprint: 1;
            uint8_t face: 1;
            uint8_t id: 1;
            uint8_t pin: 1;
            uint8_t reserved: 3;
        };
    } credentials;
    uint8_t reserved[2];            ///< 2 bytes
    union {
        struct {
            union {
                uint8_t mask;        ///< 1 byte
                struct {
                    uint8_t biometricOnly: 1;
                    uint8_t biometricPIN: 1;
                    uint8_t unused: 6;
                };
            } biometricAuth;

            union {
                uint8_t mask;        ///< 1 byte
                struct {
                    uint8_t cardOnly: 1;
                    uint8_t cardBiometric: 1;
                    uint8_t cardPIN: 1;
                    uint8_t cardBiometricOrPIN: 1;
                    uint8_t cardBiometricPIN: 1;
                    uint8_t unused: 3;
                };
            } cardAuth;

            union {
                uint8_t mask;        ///< 1 byte
                struct {
                    uint8_t idBiometric: 1;
                    uint8_t idPIN: 1;
                    uint8_t idBiometricOrPIN: 1;
                };
            } idAuth;
        };
    };
};
```

```
        uint8_t idBiometricPIN: 1;
        uint8_t unused: 4;
    };
    } idAuth;
} legacy;

struct {
    union {
        uint32_t mask;    ///< 4 bytes
        struct {
            uint32_t faceOnly: 1;
            uint32_t faceFingerprint: 1;
            uint32_t facePIN: 1;
            uint32_t faceFingerprintOrPIN: 1;
            uint32_t faceFingerprintPIN: 1;
            uint32_t unused: 27;
        };
    } faceAuth;

    union {
        uint32_t mask;    ///< 4 bytes
        struct {
            uint32_t fingerprintOnly: 1;
            uint32_t fingerprintFace: 1;
            uint32_t fingerprintPIN: 1;
            uint32_t fingerprintFaceOrPIN: 1;
            uint32_t fingerprintFacePIN: 1;
            uint32_t unused: 27;
        };
    } fingerprintAuth;

    union {
        uint32_t mask;    ///< 4 bytes
        struct {
            uint32_t cardOnly: 1;
            uint32_t cardFace: 1;
            uint32_t cardFingerprint: 1;
            uint32_t cardPIN: 1;
            uint32_t cardFaceOrFingerprint: 1;
            uint32_t cardFaceOrPIN: 1;
            uint32_t cardFingerprintOrPIN: 1;
            uint32_t cardFaceOrFingerprintOrPIN: 1;
            uint32_t cardFaceFingerprint: 1;
            uint32_t cardFacePIN: 1;
            uint32_t cardFingerprintFace: 1;
            uint32_t cardFingerprintPIN: 1;
            uint32_t cardFaceOrFingerprintPIN: 1;
            uint32_t cardFaceFingerprintOrPIN: 1;
            uint32_t cardFingerprintFaceOrPIN: 1;
            uint32_t unused: 17;
        };
    };
};
```

```

    } cardAuth;

    union {
        uint32_t mask;    ///< 4 bytes
        struct {
            uint32_t idFace: 1;
            uint32_t idFingerprint: 1;
            uint32_t idPIN: 1;
            uint32_t idFaceOrFingerprint: 1;
            uint32_t idFaceOrPIN: 1;
            uint32_t idFingerprintOrPIN: 1;
            uint32_t idFaceOrFingerprintOrPIN: 1;
            uint32_t idFaceFingerprint: 1;
            uint32_t idFacePIN: 1;
            uint32_t idFingerprintFace: 1;
            uint32_t idFingerprintPIN: 1;
            uint32_t idFaceOrFingerprintPIN: 1;
            uint32_t idFaceFingerprintOrPIN: 1;
            uint32_t idFingerprintFaceOrPIN: 1;
            uint32_t unused: 18;
        };
    } idAuth;
} extended;
};
} authSupported;

uint8_t intelligentPDSupported: 1;
uint8_t unused2: 7;

uint8_t reserved[431];
} BS2DeviceCapabilities;

```

1. *maxUsers*

Indicates the maximum number of information that can be stored on the device. (User)

2. *maxEventLogs*

Indicates the maximum number of information that can be stored on the device. (Event log)

3. *maxImageLogs*

Indicates the maximum number of information that can be stored on the device. (Image log)

4. *maxBlacklists*

Indicates the maximum number of information that can be stored on the device. (Blacklist)

5. *maxOperators*

Indicates the maximum number of information that can be stored on the device. (Operator)

6. *maxCards*

Indicates the maximum number of information that can be stored on the device. (Card)

7. *maxFaces*

Indicates the maximum number of information that can be stored on the device. (Face)

8. *maxFingerprints*

Indicates the maximum number of information that can be stored on the device. (Fingerprint)

9. *maxUserNames*

Indicates the maximum number of information that can be stored on the device. (Username)

10. *maxUserImages*

Indicates the maximum number of information that can be stored on the device. (user image)

11. *maxUserJobs*

Indicates the maximum number of information that can be stored on the device. (Job code)

12. *maxUserPhrases*

Indicates the maximum number of information that can be stored on the device. (User phrase)

13. *maxCardsPerUser*

Indicates the maximum number of information that can be stored on the device. (Card per user)

14. *maxFacesPerUser*

Indicates the maximum number of information that can be stored on the device. (Face per user)

15. *maxFingerprintsPerUser*

Indicates the maximum number of information that can be stored on the device. (Fingerprint per user)

16. *maxInputPorts*

Indicates the maximum number of information that can be stored on the device. (input port of device)

17. *maxOutputPorts*

Indicates the maximum number of information that can be stored on the device. (output port of device)

18. *maxRelays*

Indicates the maximum number of information that can be stored on the device. (relay on device)

19. *maxRS485Channels*

Indicates the maximum number of information that can be stored on the device. (RS485 channel)

20. *System support information*

It indicates the system information supported by the device in bit units as follows.

Bit position	Number of bit	Member	Description
0	1	cameraSupported	Camera Support or not
1	1	tamperSupported	Tamper Support or not
2	1	wlanSupported	WLAN Support or not
3	1	displaySupported	Available LCD or not
4	1	thermalSupported	TCM 10 (Thermal Detection) Support or not
5	1	maskSupported	Mask Detection Support or not
6	1	faceExSupported	Visual Face device such as FaceStation F2 or not

Bit position	Number of bit	Member	Description
7	1	unused	Unassigned

21. *cardSupported*

This indicates the card support relevant.

Referring to mask value, you can access each item in its entirety or in bit units.

Bit position	Number of bit	Member	Description
-	Total	mask	total Information
0	1	EM	EM Card
1	1	HIDProx	HID Proximity Card
2	1	MifareFelica	MIFARE / FeliCa
3	1	iClass	iClass Card
4	1	ClassicPlus	Classic plus Card
5	1	DesFireEV1	DESFire EV1
6	1	SRSE	iClass SR, iClass SE
7	1	SEOS	iClass SEOS
8	1	NFC	NFC Card
9	1	BLE	BLE
10	21	reserved	Unassigned
31	1	useCardOperation	Card operation enabled or not

22. *authSupported*

This indicates support information related to authentication.

23. *extendedMode*

If true, extended authentication mode is supported, refer to *authSupported.extended*.

If false, non-extended authentication mode is supported, refer to *authSupported.lagacy*.

24. *credentials*

This indicates supported authentication methods. You can access each item in its entirety or in bit units as a mask value.

Bit position	Number of bit	Member	Description
-	Total	mask	Total Information
0	1	card	Card
1	1	fingerprint	Fingerprint
2	1	face	Face
3	1	id	ID
4	1	pin	PIN
5	3	reserved	Unassigned

25. *reserved*

Reserved space.

26. *legacy*

Information referenced when non-extended authentication mode is supported.

27. *biometricAuth*

(Non-extended authentication mode) Indicates the biometric authentication combination.

Bit position	Number of bit	Member	Description
-	Total	mask	Total Information
0	1	biometricOnly	Biometric only
1	1	biometricPIN	Biometric + PIN
2	6	unused	Unassigned

28. *cardAuth*

(Non-extended authentication mode) Indicates the card authentication combination.

Bit position	Number of bit	Member	Description
-	Total	mask	Total Information
0	1	cardOnly	Card only
1	1	cardBiometric	Card + Biometric
2	1	cardPIN	Card + PIN
3	1	cardBiometricOrPIN	Card + Biometric/PIN
4	1	cardBiometricPIN	Card + Biometric + PIN
5	3	unused	Unassigned

29. *idAuth*

(Non-extended authentication mode) Indicates the ID authentication combination.

Bit position	Number of bit	Member	Description
-	Total	mask	Total Information
0	1	idBiometric	ID + Biometric
1	1	idPIN	ID + PIN
2	1	idBiometricOrPIN	ID + Biometric/PIN
3	1	idBiometricPIN	ID + Biometric + PIN
4	4	unused	미할당 필드.

30. *extended*

This information is referenced when supporting extended authentication mode.

31. *faceAuth*

(Extended authentication mode) Indicates the face authentication combination.

Bit position	Number of bit	Member	Description
-	Total	mask	Total Information
0	1	faceOnly	Face only
1	1	faceFingerprint	Face + Fingerprint
2	1	facePIN	Face + PIN
3	1	faceFingerprintOrPIN	Face + Fingerprint/PIN
4	1	faceFingerprintPIN	Face + Fingerprint + PIN
5	27	unused	Unassigned

32. *fingerprintAuth*

(Extended authentication mode) Indicates a combination of fingerprint authentication.

Bit position	Number of bit	Member	Description
-	Total	mask	Total Information
0	1	fingerprintOnly	Fingerprint only
1	1	fingerprintFace	Fingerprint + Face
2	1	fingerprintPIN	Fingerprint + PIN
3	1	fingerprintFaceOrPIN	Fingerprint + Face/PIN
4	1	fingerprintFacePIN	Fingerprint + Face + PIN
5	27	unused	Unassigned

33. *cardAuth*

(Extended authentication mode) Indicates the card authentication combination.

Bit position	Number of bit	Member	Description
-	Total	mask	Total Information
0	1	cardOnly	Card only
1	1	cardFace	Card + Face
2	1	cardFingerprint	Card + Fingerprint
3	1	cardPIN	Card + PIN
4	1	cardFaceOrFingerprint	Card + Face/Fingerprint
5	1	cardFaceOrPIN	Card + Face/PIN
6	1	cardFingerprintOrPIN	Card + Fingerprint/PIN
7	1	cardFaceOrFingerprintOrPIN	Card + Face/Fingerprint/PIN
8	1	cardFaceFingerprint	Card + Face + Fingerprint
9	1	cardFacePIN	Card + Face + PIN
10	1	cardFingerprintFace	Card + Fingerprint + Face
11	1	cardFingerprintPIN	Card + Fingerprint + PIN
12	1	cardFaceOrFingerprintPIN	Card + Face/Fingerprint + PIN
13	1	cardFaceFingerprintOrPIN	Card + Face + Fingerprint/PIN
14	1	cardFingerprintFaceOrPIN	Card + Fingerprint + Face/PIN
15	17	unused	Unassigned

34. *idAuth*

(Extended authentication mode) Indicates the ID authentication combination.

Bit position	Number of bit	Member	Description
-	Total	mask	Total Information
1	1	idFace	ID + Face
2	1	idFingerprint	ID + Fingerprint
3	1	idPIN	ID + PIN
4	1	idFaceOrFingerprint	ID + Face/Fingerprint
5	1	idFaceOrPIN	ID + Face/PIN
6	1	idFingerprintOrPIN	ID + Fingerprint/PIN
7	1	idFaceOrFingerprintOrPIN	ID + Face/Fingerprint/PIN
8	1	idFaceFingerprint	ID + Face + Fingerprint
9	1	idFacePIN	ID + Face + PIN
10	1	idFingerprintFace	ID + Fingerprint + Face
11	1	idFingerprintPIN	ID + Fingerprint + PIN

Bit position	Number of bit	Member	Description
12	1	idFaceOrFingerprintPIN	ID + Face/Fingerprint + PIN
13	1	idFaceFingerprintOrPIN	ID + Face + Fingerprint/PIN
14	1	idFingerprintFaceOrPIN	ID + Fingerprint + Face/PIN
15	18	unused	Unassigned

35. System support information

It indicates the system information supported by the device in bit units as follows.

Bit position	Number of bit	Member	Description
0	1	intelligentPDSupported	Intelligent Slave Support or not
1	7	unused2	Unassigned

36. reserved

Reserved space.

From:

<https://kb.supremainc.com/bs2sdk/> - **BioStar 2 Device SDK**

Permanent link:

https://kb.supremainc.com/bs2sdk/doku.php?id=en:device_api&rev=1630914359

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