

# iOS OPN2002i / OPN3002i Series SDK API Reference Manual



OPN2002i



OPN3002i

## OPN2002i/OPN3002i Series

All information subject to change without notice.

#### Document History

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#### SUPPORT

##### USA

Phone: 800-636-0090

Email: [support@opticonusa.com](mailto:support@opticonusa.com)

Web: [www.opticonusa.com](http://www.opticonusa.com)

##### Europe

Email: [support@opticon.com](mailto:support@opticon.com)

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## Category NSData(OPNSettingFormat)

```
#import <OPNSettingFormat.h>
```

### Public Method

```
* (NSData *) - dataSettings
```

---

### Explanation

This adds the function to switch the setting value from Transmit format to Internal Storage format.

---

### Function

```
- (NSData *) dataSettings
```

This switches the setting value from Transmit format to Internal Storage format.

Return Value:

Internal Storage Data

---

## Category NSString(OPNCommand)

```
#import <OPNCommand.h>
```

### Public Method

```
* (NSData *) - dataCommand
```

### Explanation

This adds to **NSString** the function which switches data being sent to the OPN device.

---

### Function

```
- (NSData *) dataCommand
```

This switches the data being sent to the OPN device.

---

## Class OPN2002iBluetoothService

\* (OPN2002iBluetoothService \*) + shared Controller

#import <OPN2002iBluetoothService.h>

Inherits the **OPNBluetoothService**.

### Public Method

- \* (void) - **writeData:target:**
- \* (void) - **writeData:target:timeout:**
- \* (void) - **initializeSetting:**
- \* (void) - **initializeSettingBluetooth:**
- \* (void) - **getFirmwareVersion:**
- \* (void) - **saveSetting:**
- \* (void) - **readBarcode:**
- \* (void) - **getStoredBarcodeAll:**
- \* (void) - **eraseStoredBarcodeAll:**
- \* (void) - **setDateAndTime:date:**
- \* (void) - **getDateAndTime:**
- \* (void) - **getBatteryLevel:**
- \* (void) - **getSetting:**
- \* (void) - **cancelAllCommand**
- \* (void) - **setEnableReadBarcode:**
- \* (void) - **vibratorOn:**
- \* (void) - **beepBuzzer:**

### Static Public Method

\* (OPN2002iBluetoothService \*) + shared Controller

### Additional Inherited Members

---

### Explanation

The **OPN2002i Bluetooth Service** class is designed to connect the **OPN2002i/OPN3002** Data Recorders to **SPP**, and is offered as a data collector supported basic command method.

Only one instance is created due when activating via **[GoF]Singleton Pattern**.

Be sure to use " **OPN2002iBluetoothService::sharedController()** " when returning instances.

---

## Function

### - (void) *cancelAllCommand*

This clears all unsent command cues.

### - (void) *eraseStoredBarcodeAll: (id< OPN2002iBluetoothServiceDelegate >) delegate*

This clears the data collector memory data.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

### - (void) *getBatteryLevel: (id< OPN2002iBluetoothServiceDelegate >) delegate*

This returns the data collector Battery Voltage.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

### - (void) *getDateAndTime: (id< OPN2002iBluetoothServiceDelegate >) delegate*

This returns the current date and time for the device's real-time clock.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

### - (void) *getFirmwareVersion: (id< OPN2002iBluetoothServiceDelegate >) delegate*

This returns the data collector firmware version.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

### - (void) *getSetting: (id< OPN2002iBluetoothServiceDelegate >) delegate*

This returns all data collector settings.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

**- (void) getStoredBarcodeAll: (id< OPN2002iBluetoothServiceDelegate >) delegate**

This outputs the data collector's memory.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

**- (void) initializeSetting: (id< OPN2002iBluetoothServiceDelegate >) delegate**

This returns the data collector settings to default.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

**- (void) initializeSettingBluetooth: (id< OPN2002iBluetoothServiceDelegate >) delegate**

This returns the data collector Bluetooth settings to default.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

**- (void) readBarcode: (id< OPN2002iBluetoothServiceDelegate >) delegate**

This begins barcode scanning with the data collector.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

**- (void) saveSetting: (id< OPN2002iBluetoothServiceDelegate >) delegate**

Settings saved in the data collector's volatile memory is saved as non-volatile memory.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

**- (void) setDateAndTime: (id< OPN2002iBluetoothServiceDelegate >) delegate date: (NSDate \*) date**

This sets the Date and Time for the data collector according to the device's real-time clock.

Argument:

<i>date</i>	Sets the new Date and Time.
-------------	-----------------------------



<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

**- (void) setEnableReadBarcode: (OPN2002I\_READBORCODE\_PERMISSION) status**

This sets the status of **ReadBarcode** to either 'Enable' or 'Disable'.

**+ (OPN2002iBluetoothService \*) sharedController**

This returns the **OPN2002i Bluetooth Service** instance.

Return Value:

Returns the **OPN2002i Bluetooth Service** instance.

**- (void) writeData: (NSData \*) data target: (id< OPN2002iBluetoothServiceDelegate >) target**

This transmits binary data to the data collector.

Argument:

<i>data</i>	Transmitted data string
<i>delegate</i>	Notifies that a transmission has been properly sent.

**- (void) writeData: (NSData \*) data target: (id< OPN2002iBluetoothServiceDelegate >) target timeout: (NSTimeInterval) time**

This transmits binary data to the data collector.

Argument:

<i>data</i>	Transmitted data string
<i>delegate</i>	Notifies that a transmission has been properly sent.
<i>time</i>	Timeout Duration (sec.)

**- (void) vibratorOn: (id< OPN2002iBluetoothServiceDelegate >) delegate**

This activates the data collector vibration mode.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

**- (void) beepBuzzer: (id< OPN2002iBluetoothServiceDelegate >) delegate**

This activates the data collector buzzer.

Argument:

<i>delegate</i>	Notifies that a transmission has been properly sent.
-----------------	--

**Protocol <OPN2002iBluetoothServiceDelegate>**

```
#import <OPN2002iBluetoothService.h>
```

Inherits the <OPN2002iBluetoothServiceDelegate>.

**Public Method**

- \* (void) - **bluetoothService:didGetFirmware:**
- \* (void) - **bluetoothService:didReadBarcode:**
- \* (void) - **bluetoothService:didGetStoredBarcodeAll:**
- \* (void) - **bluetoothService:didSaveSetting:**
- \* (void) - **bluetoothService:didSetDateAndTime:**
- \* (void) - **bluetoothService:didGetDateAndTime:**
- \* (void) - **bluetoothService:didGetBatteryLevel:**
- \* (void) - **bluetoothService:didGetSetting:**
- \* (void) - **bluetoothService:didGetBarcode:**
- \* (void) - **bluetoothService:didInitializeSetting:**
- \* (void) - **bluetoothService:didInitializeSettingBluetooth:**
- \* (void) - **bluetoothService:didEraseStoredBarcodeAll:**
- \* (void) - **bluetoothServiceCompletedCmd:**
- \* (void) - **bluetoothService:didVibratorOn:**
- \* (void) - **bluetoothService:didBeepBuzzer**

**Explanation**

This protocol is responsible for the **OPN2002i Bluetooth Service** delegate.

**Function****- (void) bluetoothService: (OPN2002iBluetoothService \*) service  
didEraseStoredBarcodeAll: (NSData \*) data[optional]**

Notifies when the result of **EraseStoredBarcodeAll** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>data</i>	The received result of <b>EraseStoredBarcodeAll</b> .

*- (void) bluetoothService: (OPN2002iBluetoothService \*) service didGetBarcode: (NSData \*) data[optional]*

Notifies when the result of **GetBarcode** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>data</i>	The received result of <b>GetBarcode</b> .

*- (void) bluetoothService: (OPN2002iBluetoothService \*) service didGetBatteryLevel: (NSData \*) batteryLevel[optional]*

Notifies when the result of **GetBatteryLevel** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>batteryLevel</i>	The received result of <b>GetBatteryLevel</b> .

*- (void) bluetoothService: (OPN2002iBluetoothService \*) service didGetDateAndTime: (NSData \*) dateAndTime[optional]*

Notifies when the result of **GetDateAndTime** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>dateAndTime</i>	The received result of <b>GetDateAndTime</b> .

*- (void) bluetoothService: (OPN2002iBluetoothService \*) service didGetFirmware: (NSData \*) firmware[optional]*

Notifies when the result of **GetFirmware** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>firmware</i>	The received result of <b>GetFirmware</b> .

*- (void) bluetoothService: (OPN2002iBluetoothService \*) service didGetSetting: (NSData \*) setting[optional]*

Notifies when the result of **GetSetting** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>setting</i>	The received result of <b>GetSetting</b> .

- (void) *bluetoothService: (OPN2002iBluetoothService \*) service didGetStoredBarcodeAll: (NSData \*) data[optional]*

Notifies when the result of **GetStoredBarcodeAll** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>data</i>	The received result of <b>GetStoredBarcodeAll</b> .

- (void) *bluetoothService: (OPN2002iBluetoothService \*) service didInitializeSetting: (NSData \*) data[optional]*

Notifies when the result of **InitializeSetting** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>data</i>	The received result of <b>InitializeSetting</b> .

- (void) *bluetoothService: (OPN2002iBluetoothService \*) service didInitializeSettingBluetooth: (NSData \*) data[optional]*

Notifies when the result of **InitializeSettingBluetooth** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>data</i>	The received result of <b>InitializeSettingBluetooth</b> .

- (void) *bluetoothService: (OPN2002iBluetoothService \*) service didReadBarcode: (NSData \*) data[optional]*

Notifies when the result of **ReadBarcode** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
----------------	---

<i>data</i>	The received result of the barcode's <b>ReadBarcode</b> .
-------------	---

*- (void) bluetoothService: (OPN2002iBluetoothService \*) service didSaveSetting: (NSData \*) data[optional]*

Notifies when the result of **SaveSetting** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>data</i>	The received result of <b>SaveSetting</b> .

*- (void) bluetoothService: (OPN2002iBluetoothService \*) service didSetDateAndTime: (NSData \*) data[optional]*

Notifies when the result of **SaveDateAndTime** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
<i>data</i>	The received result of <b>SaveDateAndTime</b> .

*- (void) bluetoothServiceCompletedCmd: (OPN2002iBluetoothService \*) service[optional]*

Notifies that all commands have finished transmitting.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
----------------	---

*- (void) bluetoothService: (OPN2002iBluetoothService \*) service didVibratorOn: (NSData \*) data[optional]*

Notifies when the result of **VibratorOn** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
----------------	---

- (void) *bluetoothService: (OPN2002iBluetoothService \*) service didBeepBuzzer: (NSData \*) data[optional]*

Notifies when the result of **BeepBuzzer** is received.

Argument:

<i>service</i>	The <b>OPN2002i Bluetooth Service</b> instance.
----------------	---

## Class OPNBluetoothService

#import <OPNBluetoothService.h>

Inherits the **OPN2002iBluetoothService**.

### Public Method

- \* (void) - **setupControllerForAccessory:withProtocolString:**
- \* (BOOL) - **openSession**
- \* (void) - **closeSession**
- \* (void) - **writeData:**
- \* (void) - **writeACK**
- \* (void) - **writeNAK**
- \* (NSUInteger) - **readBytesAvailable**
- \* (NSData \*) - **readData:**

### Properties

- \* EAAccessory \* **accessory**
- \* NSString \* **protocolString**
- \* id < **OPNBluetoothServiceDelegate** > **delegate**

### Explanation

This is the core class responsible for the **OPN2002i** and **I/O** Processing, Session Management, and Accessory Retention. Also, a **Singleton** Class with only one existing application.

### Function

#### - (void) *closeSession*

Closes the **EASession** and deletes the **RunLoop**. Releases the **EASession** and returns to default via **nil**.

#### - (BOOL) *openSession*

Generates the **EASession**, and opens **NSInputStream** and **NSOutputStream**.

1. Delegates and sets the currently-saved **EAAccessory** to itself.

2. Creates and returns the **EASession**. The **EAAccessory** and **protocolString** specified via **setupControllerForAccessory:accessory:withProtocolString** is used when creating the **EASession**.

Return Value:

If **BOOL EASession** is created, YES is returned. All other instances return NO.

**- (NSUInteger) readBytesAvailable**

This returns the byte length of scanned data.

**- (NSData \*) readData: (NSUInteger) bytesToRead**

This returns the bytes specified via **bytesToRead**. The scanned portion will return to default via **"NULL"**.

Argument:

<i>bytesToRead</i>	Specifies the returned binary data length.
--------------------	--

Return Value:

Byte length data specified in **bytesToRead** of **\_readData**

**- (void) setupControllerForAccessory: (EAAccessory \*) accessory  
withProtocolString: (NSString \*) protocolString**

This returns the specified **EAAccessory** and **protocolString** to default.

Argument:

<i>accessory</i>	Specifies the accessory.
<i>protocolString</i>	Specifies the data collector protocol string.

**- (void) writeACK**

This transmits the **ACK**.

**- (void) writeData: (NSData \*) data**

This writes the specified **NSData** into the session.

Argument:

<i>data</i>	additional data
-------------	-----------------

- (void) *writeNAK*

This transmits the **NAK**.

---

Properties

- (EAAccessory\*) *accessory[read], [nonatomic], [assign]*

This connects the **EAAccessory**

- (id<OPNBluetoothServiceDelegate>) *delegate[read], [write], [nonatomic], [assign]*

This delegate will be performed after receiving data

- (NSString\*) *protocolString[read], [nonatomic], [assign]*

The **protocolString** connected to the device

---

Protocol <OPNBluetoothServiceDelegate>

#import <OPNBluetoothService.h>

Inherits the <OPN2002iBluetoothServiceDelegate>.

Public Method

\* (void) - **bluetoothService:withError:**

---

Explanation

This is the delegate for the **OPNSessionController**.

---

Function

- (void) *bluetoothService: (OPNBluetoothService \*) service withError: (NSError \*) error[optional]*

Notifies that the transmission was not properly conducted.

Argument:

<i>service</i>	The <b>OPNBluetoothService</b> instance.
<i>error</i>	Returns the content of an <b>ERROR</b> .

---



## Class OPNSettingChar

```
#import <OPNSettingChar.h>
```

### Static Public Method

```
* (NSMutableArray *) + settingcharsWithPFSFs:  
* (NSString *) + getCommandString:  
* (NSArray *) + createSettingChars
```

### Properties

```
* NSString * name  
* NSString * command  
* int pfsf
```

---

### Explanation

This class is responsible for the command class for the character string settings.

1. Converts the bit array **pfsf** to the **OPN2002i/OPN3002i** prefix/suffix array.
2. Converts setting character **str** to the **OPN2002i/OPN3002i** command array.
3. Returns the **OPN2002i/OPN3002i** character string setting command summary as an array.

---

### Function

#### *+ (NSArray \*) createSettingChars*

This returns the **OPN2002i/OPN3002i** character string setting command summary as an array.

Return Value:

Command summary of character string settings.

#### *+ (NSString \*) getCommandString: (NSString \*) str*

This converts setting character **str** to the **OPN2002i/OPN3002i** command array.

Argument:

<i>str</i>	Convert target character string
------------	---------------------------------

Return Value:

Command Array

**+ (NSMutableArray \*) settingcharsWithPFSFs: (NSData \*) pfsf**

This converts the bit array **pfsf** to the **OPN2002i** prefix/suffix array.

Argument:

<i>pfsf</i>	PFSF output with XZ5
-------------	----------------------

Return Value:

Prefix/Suffix Array

## Properties

**- (NSString\*) command[read], [write], [nonatomic], [retain]**

Command

**- (NSString\*) name[read], [write], [nonatomic], [retain]**

Setting Characters

**- (int) pfsf[read], [write], [nonatomic], [assign]**

PFSF output with XZ5

## Class OPNSettings

```
#import <OPNSettings.h>
```

### Public Method

- \* (NSString \*) - **getFarmwareVersion**
- \* (void) - **clearData**
- \* (BOOL) - **JAN\_EAN\_13\_8\_PERMISSION**
- \* (BOOL) - **JAN\_EAN\_13\_TRANSMIT\_CD**
- \* (BOOL) - **WPC\_UPC\_EAN\_JAN\_CD\_CALCULATION**
- \* (BOOL) - **JAN\_EAN\_13\_8\_ADDON2\_PERMISSION**
- \* (BOOL) - **JAN\_EAN\_13\_8\_ADDON5\_PERMISSION**
- \* (BOOL) - **JAN\_EAN\_8\_TRANSMIT\_CD**
- \* (BOOL) - **UPC\_A\_E\_PERMISSION**
- \* (BOOL) - **UPC\_A\_TRANSMIT\_CD\_B2**
- \* (BOOL) - **UPC\_A\_TRANSMIT\_CD\_B4**
- \* (BOOL) - **UPC\_A\_E\_Addon2\_PERMISSION**
- \* (BOOL) - **UPC\_A\_E\_Addon5\_PERMISSION**
- \* (int) - **UPC\_A\_TRANSMIT**
- \* (BOOL) - **UPC\_E\_TRANSMIT\_CD\_B2**

- \* (BOOL) - **UPC\_E\_TRANSMIT\_CD\_B4**
- \* (int) - **UPC\_E\_TRANSMIT**
- \* (BOOL) - **CODE\_39\_PERMISSION**
- \* (BOOL) - **CODE\_39\_TRANSMIT\_CD**
- \* (BOOL) - **CODE\_39\_CALCULATION**
- \* (BOOL) - **CODE\_39\_START\_STOP\_CD**
- \* (BOOL) - **NW\_7\_PERMISSION**
- \* (BOOL) - **NW\_7\_TRANSMIT\_CD**
- \* (int) - **NW\_7\_CALCULATION**
- \* (int) - **NW\_7\_START\_STOP\_CD**
- \* (BOOL) - **INTERLEAVED\_2OF5\_PERMISSION**
- \* (BOOL) - **INDUSTRIAL\_INTERLEAVED\_2OF5\_TRANSMIT\_CD**
- \* (BOOL) - **INDUSTRIAL\_INTERLEAVED\_2OF5\_CALCULATION**
- \* (BOOL) - **INDUSTRIAL\_2OF5\_PERMISSION**
- \* (BOOL) - **IATA\_PERMISSION**
- \* (BOOL) - **IATA\_TRANSMIT\_CD**
- \* (int) - **IATA\_CALCULATION**
- \* (BOOL) - **CODE\_93\_PERMISSION**
- \* (BOOL) - **CODE\_93\_CALCULATION**
- \* (BOOL) - **CODE\_128\_PERMISSION**
- \* (BOOL) - **CODE\_128\_TRANSMIT\_CD**
- \* (BOOL) - **CODE\_128\_EAN\_128\_CALCULATION**
- \* (int) - **EAN\_128\_PERMISSION**
- \* (BOOL) - **S\_CODE\_PERMISSION**
- \* (BOOL) - **MSI\_PLESSEY\_PERMISSION**
- \* (int) - **MSI\_PLESSEY\_TRANSMIT**
- \* (int) - **MIS\_PLESSEY\_CALCULATION**
- \* (BOOL) - **UK\_PLESSEY\_PERMISSION**
- \* (BOOL) - **TELEPEN\_PERMISSION**
- \* (BOOL) - **MATRIX\_2OF5\_PERMISSION**
- \* (BOOL) - **TRI\_OPTIC\_PERMISSION**
- \* (BOOL) - **GS1\_DATABAR\_RSS14\_PERMISSION**
- \* (BOOL) - **GS1\_DATABAR\_LIMITED\_PERMISSION**
- \* (BOOL) - **GS1\_DATABAR\_EXPANDED\_PERMISSION**
- \* (BOOL) - **GS1\_DATABAR\_TRANSMIT\_CD**
- \* (BOOL) - **CODE\_3OF5\_PERMISSION**
- \* (BOOL) - **CODE\_11\_PERMISSION**
- \* (BOOL) - **INTELLIGENT\_MAIL\_PERMISSION**
- \* (BOOL) - **POSTNET\_PERMISSION**
- \* (BOOL) - **JAPANESE\_POSTAL\_PERMISSION**
- \* (BOOL) - **CODABLOCK\_F\_PERMISSION**
- \* (BOOL) - **DATA\_MATRIX\_ECC200\_PERMISSION**
- \* (BOOL) - **DATA\_MATRIX\_ECC000\_140\_PERMISSION**
- \* (BOOL) - **AZTEC\_CODE\_PERMISSION**
- \* (BOOL) - **AZTEC\_RUNES\_PERMISSION**
- \* (BOOL) - **CHINESE\_SENSIBLE\_CODE\_PERMISSION**
- \* (BOOL) - **QR\_CODE\_PERMISSION**
- \* (BOOL) - **MICRO\_QR\_CODE\_PERMISSION**
- \* (BOOL) - **MAXI\_CODE\_PERMISSION**
- \* (BOOL) - **COMPOSITE\_ON\_GS1\_DATABAR\_PERMISSION**
- \* (BOOL) - **COMPOSITE\_ON\_UPC\_EAN\_PERMISSION**

- \* (int) - **READ\_MODE**
- \* (int) - **READABLE\_TIME**
- \* (int) - **REDUNDANT\_READING**
- \* (int) - **MULTIPLE\_READ\_RESET\_TIME**
- \* (int) - **ADDON\_WAIT\_TIME**
- \* (int) - **BUZZER\_VOLUME**
- \* (int) - **GOOD\_READ\_LED\_ON\_TIME**
- \* (int) - **TRIGGER\_MODE\_ENABLE**
- \* (int) - **TRIGGER\_REPEAT\_ENABLE**
- \* (int) - **BUZZER\_ENABLE**
- \* (int) - **BUZZER\_TONE**
- \* (int) - **BUZZER\_PERIOD**
- \* (int) - **BUZZER\_MODE**
- \* (NSString \*) - **DESTINATION\_ADDRESS**
- \* (int) - **COMMAND\_RESPONSE**
- \* (NSString \*) - **PIN\_CODE**
- \* (int) - **TRIGGER\_CONNECTION\_ENABLE**
- \* (int) - **ADDRESS\_BARCODE\_CONNECTION\_ENABLE**
- \* (int) - **ACK\_NAK\_CONTROL**
- \* (int) - **CONNECTION\_MODE**
- \* (int) - **SLAVE\_CONNECTION\_WAIT\_TIME**
- \* (int) - **AUTO\_RECONNECTION\_TIME**
- \* (int) - **AUTO\_DISCONNECTION\_TIME**
- \* (int) - **TRIGGER\_BUTTON\_PUSHTIME\_FOR\_CONNECTION**
- \* (int) - **TRIGGER\_BUTTON\_PUSHTIME\_FOR\_DISCONNECTION**
- \* (int) - **ACK\_NAK\_WAIT\_TIME**
- \* (int) - **OUT\_OF\_RANGE\_MEMORY\_ENABLE**
- \* (int) - **DATA\_COLLECT\_MODE\_ENABLE**
- \* (int) - **AUTO\_CONNECTION\_ENABLE**
- \* (int) - **DISCONNECTION\_BUZZER\_FROM\_DATA\_COLLECTOR**
- \* (int) - **DISCONNECTION\_BUZZER\_FROM\_DESTINATION**
- \* (int) - **MEMORY\_OUTPUT\_METHOD**
- \* (int) - **USB\_CONNECTION**
- \* (int) - **FUNCTION\_BUTTON\_INPUT**
- \* (NSString \*) - **DEVICE\_NAME**
- \* (NSString \*) - **DESTINATION\_ADDRESS\_LAST\_TIME**
- \* (int) - **INTER\_CHARACTER\_DELAY**
- \* (int) - **KEYBOARD\_LANGUAGE**
- \* (BOOL) - **GOOD\_READ\_VIBRATOR\_ENABLE**
- \* (NSData \*) - **UPCA\_PREFIX**
- \* (NSData \*) - **UPCA\_ADDON\_PREFIX**
- \* (NSData \*) - **UPCE\_PREFIX**
- \* (NSData \*) - **UPCE\_ADDON\_PREFIX**
- \* (NSData \*) - **EAN13\_PREFIX**
- \* (NSData \*) - **EAN13\_ADDON\_PREFIX**
- \* (NSData \*) - **EAN8\_PREFIX**
- \* (NSData \*) - **EAN8\_ADDON\_PREFIX**
- \* (NSData \*) - **CODE39\_PREFIX**
- \* (NSData \*) - **TRI\_OPTIC\_PREFIX**
- \* (NSData \*) - **NW7\_PREFIX**
- \* (NSData \*) - **D2OF5\_PREFIX**

\* (NSData \*) - **I2OF5\_PREFIX**  
 \* (NSData \*) - **SCODE\_PREFIX**  
 \* (NSData \*) - **MATRIX2OF5\_PREFIX**  
 \* (NSData \*) - **CODE93\_PREFIX**  
 \* (NSData \*) - **CODE128\_PREFIX**  
 \* (NSData \*) - **MSIPLESSEY\_PREFIX**  
 \* (NSData \*) - **IATA\_PREFIX**  
 \* (NSData \*) - **UKPLESSEY\_PREFIX**  
 \* (NSData \*) - **TELEPEN\_PREFIX**  
 \* (NSData \*) - **RSS\_PREFIX**  
 \* (NSData \*) - **CODE11\_PREFIX**  
 \* (NSData \*) - **CODE3OF5\_PREFIX**  
 \* (NSData \*) - **EAN128\_PREFIX**  
 \* (NSData \*) - **COMMON\_PREFIX**  
 \* (NSData \*) - **INTELLIGENT\_MAIL\_PREFIX**  
 \* (NSData \*) - **POSTNET\_PREFIX**  
 \* (NSData \*) - **JAPANESE\_POSTAL\_PREFIX**  
 \* (NSData \*) - **CODABLOCK\_F\_PREFIX**  
 \* (NSData \*) - **DATA\_MATRIX\_ECC\_200\_ECC000\_140\_PREFIX**  
 \* (NSData \*) - **AZTEC\_CODE\_RUNES\_PREFIX**  
 \* (NSData \*) - **CHINESE\_SENSIBLE\_CODE\_PREFIX**  
 \* (NSData \*) - **QR\_MICRO\_QR\_PREFIX**  
 \* (NSData \*) - **MAXI\_CODE\_PREFIX**  
 \* (NSData \*) - **COMPOSITE\_ON\_GS1\_DATABAR\_ON\_UPC\_EAN\_PREFIX**  
 \* (NSData \*) - **UPCA\_SUFFIX**  
 \* (NSData \*) - **UPCA\_ADDON\_SUFFIX**  
 \* (NSData \*) - **UPCE\_SUFFIX**  
 \* (NSData \*) - **UPCE\_ADDON\_SUFFIX**  
 \* (NSData \*) - **EAN13\_SUFFIX**  
 \* (NSData \*) - **EAN13\_ADDON\_SUFFIX**  
 \* (NSData \*) - **EAN8\_SUFFIX**  
 \* (NSData \*) - **EAN8\_ADDON\_SUFFIX**  
 \* (NSData \*) - **CODE39\_SUFFIX**  
 \* (NSData \*) - **TRI\_OPTIC\_SUFFIX**  
 \* (NSData \*) - **NW7\_SUFFIX**  
 \* (NSData \*) - **D2OF5\_SUFFIX**  
 \* (NSData \*) - **I2OF5\_SUFFIX**  
 \* (NSData \*) - **SCODE\_SUFFIX**  
 \* (NSData \*) - **MATRIX2OF5\_SUFFIX**  
 \* (NSData \*) - **CODE93\_SUFFIX**  
 \* (NSData \*) - **CODE128\_SUFFIX**  
 \* (NSData \*) - **MSIPLESSEY\_SUFFIX**  
 \* (NSData \*) - **IATA\_SUFFIX**  
 \* (NSData \*) - **UKPLESSEY\_SUFFIX**  
 \* (NSData \*) - **TELEPEN\_SUFFIX**  
 \* (NSData \*) - **RSS\_SUFFIX**  
 \* (NSData \*) - **CODE11\_SUFFIX**  
 \* (NSData \*) - **CODE3OF5\_SUFFIX**  
 \* (NSData \*) - **EAN128\_SUFFIX**  
 \* (NSData \*) - **COMMON\_SUFFIX**  
 \* (NSData \*) - **INTELLIGENT\_MAIL\_SUFFIX**

- \* (NSData \*) - **POSTNET\_SUFFIX**
- \* (NSData \*) - **JAPANESE\_POSTAL\_SUFFIX**
- \* (NSData \*) - **CODABLOCK\_F\_SUFFIX**
- \* (NSData \*) - **DATA\_MATRIX\_ECC200\_ECC000\_140\_SUFFIX**
- \* (NSData \*) - **AZTEC\_CODE\_RUNES\_SUFFIX**
- \* (NSData \*) - **CHINESE\_SENSIBLE\_CODE\_SUFFIX**
- \* (NSData \*) - **QR\_MICRO\_QR\_SUFFIX**
- \* (NSData \*) - **MAXI\_CODE\_SUFFIX**
- \* (NSData \*) - **COMPOSITE\_ON\_GS1\_DATABAR\_ON\_UPC\_EAN\_SUFFIX**

#### Static Public Method

- \* (OPNSettings \*) + **sharedController**
- \* (OPNSettings \*) + **sharedController:**

---

#### Explanation

This distributes the method necessary to return the setting value of the device's returned byte data.

Only one instance is created when activated, via **[GoF]Singleton Pattern**.

Be sure to use " **OPNSettings::sharedController()** " when instances are returned.

---

#### Function

##### - (int) **ACK\_NAK\_CONTROL**

This returns the **ACK/NAK** Control settings.

Return Value:

0: NO 1: YES 2: YES (**NoResponse**)

##### - (int) **ACK\_NAK\_WAIT\_TIME**

This returns the **ACK/NAK** Wait Time settings.

Return Value:

50:1s 100:2s 250:5s

##### - (int) **ADDON\_WAIT\_TIME**

This returns the Add On Timer settings.

Return Value:

0: NO 13:250ms 25:500ms 38:750ms

##### - (int) **ADDRESS\_BARCODE\_CONNECTION\_ENABLE**

This returns the connection process settings via address barcode scanning.

Return Value:

0: Disable 1: Enable

- (int) *AUTO\_CONNECTION\_ENABLE*

This returns the Auto Connection settings via address barcode scanning.

Return Value:

0: Disable 1: Enable

- (int) *AUTO\_DISCONNECTION\_TIME*

This returns the Auto Disconnection Time settings.

Return Value:

0: Disable	500:10 sec	1000:20 sec	1500:30 sec	2000:40 sec
2500:50 sec	3000:1 min	6000:2 min	9000:3 min	12000:4 min
15000:5 min	18000:6 min	21000:7 min	24000:8 min	27000:9 min
30000:10 min	60000:20 min	90000:30 min	120000:40 min	150000:50 min
180000:60 min				

- (int) *AUTO\_RECONNECTION\_TIME*

This returns the Auto Reconnection Time settings.

Return Value:

0: Disable	3000:1 min	6000:2 min	9000:3 min	12000:4 min
15000:5 min	18000:6 min	21000:7 min	24000:8 min	27000:9 min
30000:10 min	33000:11 min	36000:12 min	39000:13 min	42000:14 min
45000:15 min				

- (int) *BUZZER\_ENABLE*

This returns the Buzzer Noise settings.

Return Value:

0: Disable 1: Enable

- (int) *BUZZER\_MODE*

This returns the Buzzer Noise Timing settings.

Return Value:

0: Pre-transmit Buzzer 1: Post-transmit Buzzer

- (int) *BUZZER\_PERIOD*

This returns the Buzzer Noise Duration settings.

Return Value:

5:100ms 10:200ms 20:400ms 2:50ms

- *(int) BUZZER\_TONE*

This returns the Buzzer Tone settings.

Return Value:

0: Single Tone 1: High-Low 2: Low-High 3:4.5KHz 4:2.2KHz-2KHz

- *(int) BUZZER\_VOLUME*

This returns the Buzzer Volume settings.

Return Value:

127: Maximum 32: Large 8: Medium 1: Small

- *(void) clearData*

This returns the set bit array to default.

- *(NSData \*) CODE11\_PREFIX*

Specifies the **Code 11** prefix.

Return Value: Prefix

- *(NSData \*) CODE11\_SUFFIX*

Specifies the **Code 11** suffix.

Return Value: Suffix

- *(NSData \*) CODE128\_PREFIX*

Specifies the **Code 128** prefix.

Return Value: Prefix

- *(NSData \*) CODE128\_SUFFIX*

Specifies the **Code 128** suffix.

Return Value: Suffix

- *(NSData \*) CODE39\_PREFIX*

Specifies the **Code 39** prefix.

Return Value: Prefix



- *(NSData \*) CODE39\_SUFFIX*

Specifies the **Code 39** suffix.

Return Value: Suffix

- *(NSData \*) CODE3OF5\_PREFIX*

Specifies the **Code 3 of 5** prefix.

Return Value: Prefix

- *(NSData \*) CODE3OF5\_SUFFIX*

Specifies the **Code 3 of 5** suffix.

Return Value: Suffix

- *(NSData \*) CODE93\_PREFIX*

Specifies the **Code 93** prefix.

Return Value: Prefix

- *(NSData \*) CODE93\_SUFFIX*

Specifies the **Code 93** suffix.

Return Value: Suffix

- *(BOOL) CODE\_11\_PERMISSION*

This returns the enable **Code 11** scanning settings.

Return Value:

YES: Enable NO: Disable

- *(BOOL) CODE\_128\_EAN\_128\_CALCULATION*

This returns the **Code 128/EAN-128** CD calculation settings.

Return Value:

YES: calculate CD NO: do not calculate CD

- *(BOOL) CODE\_128\_PERMISSION*

This returns the enable **Code 128** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (BOOL) CODE\_128\_TRANSMIT\_CD**

This returns the **Code 128/EAN-128** CD transmit settings.

Return Value:

YES: transmit CD NO: do not transmit CD

**- (BOOL) CODE\_39\_CALCULATION**

This returns the **Code 39** CD transmit settings.

Return Value:

YES: calculate CD NO: do not calculate CD

**- (BOOL) CODE\_39\_PERMISSION**

This returns the enable **Code 39** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (BOOL) CODE\_39\_START\_STOP\_CD**

This returns the **Code 39** Start/Stop settings.

Return Value:

YES: transmit NO: do not transmit

**- (BOOL) CODE\_39\_TRANSMIT\_CD**

This returns the enable **Code 39** scanning settings.

Return Value:

YES: transmit CD NO: do not transmit CD

**- (BOOL) CODE\_30F5\_PERMISSION**

This returns the enable **Code 30f5** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (BOOL) CODE\_93\_CALCULATION**

This returns the **Code 93** CD calculation settings.

Return Value:

YES: calculate CD NO: do not calculate CD

- *(BOOL) CODE\_93\_PERMISSION*

This returns the enable **Code 93** scanning settings.

Return Value:

YES: Enable NO: Disable

- *(int) COMMAND\_RESPONSE*

This returns the Command Response settings.

Return Value:

1. YES Adheres to **(ACK/NAK)** 0: BT33 (0-7) settings

- *(NSData \*) COMMON\_PREFIX*

Specifies the common prefix.

Return Value: Prefix

- *(NSData \*) COMMON\_SUFFIX*

Specifies the common suffix.

Return Value: Suffix

- *(int) CONNECTION\_MODE*

This returns the Connection Mode settings.

Return Value:

0: SPP Master 1: SPP Slave 2: HID

- *(NSData \*) D2OF5\_PREFIX*

Specifies the **Industrial 2of5** prefix.

Return Value: Prefix

- *(NSData \*) D2OF5\_SUFFIX*

Specifies the **Industrial 2of5** suffix.

Return Value: Suffix

- *(int) DATA\_COLLECT\_MODE\_ENABLE*

This returns the data collect settings.

Return Value:

0: Disable 1: Enable

- (*NSString \**) *DESTINATION\_ADDRESS*

This returns the connected partner address settings.

Return Value:

Connected partner address

- (*NSString \**) *DESTINATION\_ADDRESS\_LAST\_TIME*

This returns the previous slave-connected partner address settings.

Return Value:

Previous slave-connected partner address

- (*NSString \**) *DEVICE\_NAME*

This returns the Bluetooth Device Name settings.

Return Value:

Bluetooth Device Name

- (*int*) *DISCONNECTION\_BUZZER\_FROM\_DATA\_COLLECTOR*

This returns the data collector 'buzzer disconnect' settings.

Return Value:

0: Disable 1: Enable

- (*int*) *DISCONNECTION\_BUZZER\_FROM\_DESTINATION*

This returns the connected partner 'buzzer disconnect' settings.

Return Value:

0: Disable 1: Enable

- (*NSData \**) *EAN128\_PREFIX*

Specifies the **EAN 128** prefix

Return Value: Prefix

- (*NSData \**) *EAN128\_SUFFIX*

Specifies the **EAN 128** suffix

Return Value: Suffix

- (*NSData \**) *EAN13\_ADDON\_PREFIX*

Specifies the **EAN 13** Add On prefix

Return Value: Prefix

- *(NSData \*) EAN13\_ADDON\_SUFFIX*

Specifies the **EAN 13** Add On suffix

Return Value: Suffix

- *(NSData \*) EAN13\_PREFIX*

Specifies the **EAN 13** prefix

Return Value: Prefix

- *(NSData \*) EAN13\_SUFFIX*

Specifies the **EAN 13** suffix

Return Value: Suffix

- *(NSData \*) EAN8\_ADDON\_PREFIX*

Specifies the **EAN 8** Add On prefix

Return Value: Prefix

- *(NSData \*) EAN8\_ADDON\_SUFFIX*

Specifies the **EAN 8** Add On suffix

Return Value: Suffix

- *(NSData \*) EAN8\_PREFIX*

Specifies the **EAN 8** prefix

Return Value: Prefix

- *(NSData \*) EAN8\_SUFFIX*

Specifies the **EAN 8** suffix

Return Value: Suffix

- *(int) EAN\_128\_PERMISSION*

This returns the enable **Code 128** scanning settings.

Return Value:

2: Enable if possible

1: Enable **EAN-128** only

0: Disable **Code 128** as output

- (int) **FUNCTION\_BUTTON\_INPUT**

This returns the output settings when the function button is pressed.

Return Value:

0x09: HT 0x0A:LF 0x0D:CR 0x18:CAN 0x1B:ESC

- (NSString \*) **getFirmwareVersion**

This returns the firmware version.

Return Value:

Firmware version

- (int) **GOOD\_READ\_LED\_ON\_TIME**

This returns the LED lighting duration settings.

Return Value:

0: Disable

10:200ms

20:400ms

30:600ms

- (BOOL) **GS1\_DATABAR\_EXPANDED\_PERMISSION**

This returns the enable **GS1 DataBar** Expanded scanning settings.

Return Value:

YES: Enable NO: Disable

- (BOOL) **GS1\_DATABAR\_LIMITED\_PERMISSION**

This returns the enable **GS1 DataBar** Limited scanning settings.

Return Value:

YES: Enable NO: Disable

- (BOOL) **GS1\_DATABAR\_RSS14\_PERMISSION**

This returns the enable **GS1 DataBar** scanning settings.

Return Value:

YES: Enable NO: Disable

- (BOOL) **GS1\_DATABAR\_TRANSMIT\_CD**

This returns the **GS1 DataBar** CD transmit settings.

Return Value:

YES: transmit CD NO: do not transmit CD

- *(NSData \*) I2OF5\_PREFIX*

Specifies the **Interleaved 2 of 5** prefix

Return Value: Prefix

- *(NSData \*) I2OF5\_SUFFIX*

Specifies the **Interleaved 2 of 5** suffix

Return Value: Suffix

- *(int) IATA\_CALCULATION*

This returns the **IATA** CD calculation settings.

Return Value:

- 1: Calculate CD (CPN+FORM SERIAL)
- 2: Calculate CD (FORM SERIAL)
- 3: Calculate CD (ALL DATA)
- 0: Do not calculate CD

- *(BOOL) IATA\_PERMISSION*

This returns the enable **IATA** scanning settings.

Return Value:

YES: Enable NO: Disable

- *(NSData \*) IATA\_PREFIX*

Specifies the **IATA** prefix

Return Value: Prefix

- *(NSData \*) IATA\_SUFFIX*

Specifies the **IATA** suffix

Return Value:

Suffix

- *(BOOL) IATA\_TRANSMIT\_CD*

This returns the **IATA** CD transmit settings.

Return Value:

YES: transmit CD NO: do not transmit CD

**- (BOOL) INDUSTRIAL\_2OF5\_PERMISSION**

This returns the enable **Industrial 2 of 5** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (BOOL) INDUSTRIAL\_INTERLEAVED\_2OF5\_CALCULATION**

This returns the **Industrial 2 of 5 / Interleaved 2 of 5** CD calculation settings.

Return Value:

YES: calculate CD NO: do not calculate CD

**- (BOOL) INDUSTRIAL\_INTERLEAVED\_2OF5\_TRANSMIT\_CD**

This returns the **Industrial 2 of 5 / Interleaved 2 of 5** CD transmit settings.

Return Value:

YES: transmit CD NO: do not transmit CD

**- (int) INTER\_CHARACTER\_DELAY**

This returns the Intercharacter Delay settings.

Return Value:

0:0ms	10:10ms	20:20ms	30:30ms	40:40ms
50:50ms	60:60ms	70:70ms	80:80ms	90:90ms
100:100ms	150:150ms	200:200ms	250:250ms	300:300ms
350:350ms	400:400ms	450:450ms	500:500ms	550:550ms
600:600ms				

**- (BOOL) INTERLEAVED\_2OF5\_PERMISSION**

This returns the enable **Interleaved2of5** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (BOOL) JAN\_EAN\_13\_8\_ADDON2\_PERMISSION**

This returns the enable **EAN 13/8 (Add On2)** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (BOOL) JAN\_EAN\_13\_8\_ADDON5\_PERMISSION**

This returns the enable **EAN 13/8 (Add On5)** scanning settings.

Return Value:

YES: Enable NO: Disable



**- (BOOL) JAN\_EAN\_13\_8\_PERMISSION**

This returns the enable **EAN 13/8** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (BOOL) JAN\_EAN\_13\_TRANSMIT\_CD**

This returns the **EAN 13** CD transmit settings.

Return Value:

YES: transmit CD NO: do not transmit CD

**- (BOOL) JAN\_EAN\_8\_TRANSMIT\_CD**

This returns the **JAN/EAN 8** CD transmit settings.

Return Value:

YES: transmit CD NO: do not transmit CD

**- (int) KEYBOARD\_LANGUAGE**

This returns the Keyboard Language settings.

Return Value:

0x01:USA (Default)	0x02:UK	0x03:French	0x04:German
0x05:Italian	0x09:Belgian	0x0A:Spanish	0x0B:Portuguese
0x0C:Dutch	0x0D:Swedish	0x0E:Finnish	0x0F:Swiss German
0x10:Swiss French	0x11:Japanese	0x12:Danish	0x13:Norwegian
			0x15:Czech

**- (NSData \*) MATRIX2OF5\_PREFIX**

Specifies the **Matrix 2 of 5** prefix

Return Value:

Prefix

**- (NSData \*) MATRIX2OF5\_SUFFIX**

Specifies the **Matrix2of5** suffix

Return Value:

Suffix

- (BOOL) *MATRIX\_2OF5\_PERMISSION*

This returns the enable **Matrix 2 of 5** scanning settings.

Return Value:

YES: Enable NO: Disable

- (int) *MEMORY\_OUTPUT\_METHOD*

This returns the Memory Data Output Process settings.

Return Value:

0: Output upon Connection 1: Function Key or Command Output- Data Output Command

- (int) *MIS\_PLESSEY\_CALCULATION*

This returns the **MSI/Plessey** CD calculation settings.

Return Value:

1: Calculate CD, CD1 only (Mod10)

2: Calculate CD (Mod10/Mod10)

3: Calculate CD (Mod10/Mod11)

4: Calculate CD (Mod11/Mod10)

0: Do not calculate CD

- (BOOL) *MSI\_PLESSEY\_PERMISSION*

This returns the enable **MSI/Plessey** scanning settings.

Return Value:

YES: Enable NO: Disable

- (int) *MSI\_PLESSEY\_TRANSMIT*

This returns the **MSI/Plessey** CD transmit settings.

Return Value:

1: CD transmit CD1

2: CD transmit CD1 and CD2

0: Do not transmit

- (NSData \*) **MSIPLESSEY\_PREFIX**

Specifies the **MSI/Plessey** prefix

Return Value: Prefix

- (NSData \*) **MSIPLESSEY\_SUFFIX**

Specifies the **MSI/Plessey** suffix

Return Value: Suffix

- (int) **MULTIPLE\_READ\_RESET\_TIME**

This returns the Multiple Read Reset Time settings.

Return Value:

0: Unlimited 3:50ms 5:100ms 10:200ms 15:300ms 20:400ms 25:500ms 30:600ms

- (NSData \*) **NW7\_PREFIX**

Specifies the **NW-7** prefix

Return Value: Prefix

- (NSData \*) **NW7\_SUFFIX**

Specifies the **NW-7** suffix

Return Value: Suffix

- (int) **NW\_7\_CALCULATION**

This returns the **NW-7** CD calculation settings.

Return Value:

1: Calculate CD **Mod10/W1, 2 spec1**

2: Calculate CD **Mod16**

3: Calculate CD **7 check**

4: Calculate CD **Mod11**

0: Do not calculate CD

- (BOOL) **NW\_7\_PERMISSION**

This returns the enable **NW-7** scanning settings.

Return Value:

YES: Enable NO: Enable

**- (int) NW\_7\_START\_STOP\_CD**

This returns the **NW-7** Start/Stop settings.

Return Value:

- 1: Transmit **ABCD/TN\*E**
- 2: Transmit **abcd/tn\*e**
- 3: Transmit **ABCD**
- 4: Transmit **abcd**
- 5: Transmit **DC1DC2DC3DC4**
- 0: Do not transmit

**- (BOOL) NW\_7\_TRANSMIT\_CD**

This returns the enable **NW-7** scanning settings.

Return Value:

YES: transmit CD NO: do not transmit CD

**- (int) OUT\_OF\_RANGE\_MEMORY\_ENABLE**

This returns the Out of Range Memory settings.

Return Value:

0: Disable 1: Enable

**- (NSString \*) PIN\_CODE**

This returns the **PIN Code** settings.

Return Value: PIN Code

**- (int) READ\_MODE**

This returns the Read Mode settings.

Return Value:

1: Single Scan 2: Multiple Scans 3: Successive Scans

**- (int) READABLE\_TIME**

This returns the Readable Time settings.

Return Value:

0: Unlimited -1:0 sec 50:1 sec 100:2 sec 150:3 sec 200:4 sec 250:5 sec 300:6 sec 350:7 sec  
400:8 sec 450:9 sec -: Readable Time x 10

**- (int) REDUNDANT\_READING**

This returns the Check Quantity settings.

Return Value:

0:1 Scan 0 Checks	1:2 Scan 1 Checks	2:3 Scan 2 Checks
3:4 Scan 3 Checks	4:5 Scan 4 Checks	5:6 Scan 5 Checks
6:7 Scan 6 Checks	7:8 Scan 7 Checks	8:9 Scan 8 Checks
9:10 Scan 9 Checks	10:11 Scan 10 Checks	11:12 Scan 11 Checks
12:13 Scan 12 Checks	1:14 Scan 13 Checks	2:15 Scan 14 Checks
15:16 Scan 15 Checks		

**- (NSData \*) RSS\_PREFIX**

Specifies the **RSS** prefix

Return Value:

Prefix

**- (NSData \*) RSS\_SUFFIX**

Specifies the **RSS** suffix

Return Value: Suffix

**- (BOOL) S\_CODE\_PERMISSION**

This returns the enable **SCode** scanning settings.

Return Value:

YES: Enable NO: Enable

**- (NSData \*) S\_CODE\_PREFIX**

Specifies the **SCode** prefix

Return Value: Prefix

**- (NSData \*) S\_CODE\_SUFFIX**

Specifies the **SCode** suffix

Return Value: Suffix

**+ (OPNSettings \*) sharedController**

This returns the single instance.

Return Value: Instance

**+ (OPNSettings \*) sharedController: (NSData \*) data**

This returns the single (only) instance.

Argument:

<i>data</i>	Sets the returned binary data from the data collector.
-------------	--

Return Value: Instance

**- (int) SLAVE\_CONNECTION\_WAIT\_TIME**

This returns the Slave Connection Wait Time settings.

Return Value:

1500: 30 sec

3000: 1 min

6000: 2 min

9000: 3 min

12000: 4 min

**- (BOOL) TELEPEN\_PERMISSION**

This returns the enable **Telepen** scanning settings.

Return Value:

YES: Enable NO: Enable

**- (NSData \*) TELEPEN\_PREFIX**

Specifies the **Telepen** prefix

Return Value: Prefix

**- (NSData \*) TELEPEN\_SUFFIX**

Specifies the **Telepen** suffix

Return Value: Suffix

**- (BOOL) TRI\_OPTIC\_PERMISSION**

This returns the enable **Tri-Optic** scanning settings.

Return Value:

YES: Enable NO: Enable

**- (NSData \*) TRI\_OPTIC\_PREFIX**

Specifies the **Tri-Optic** prefix

Return Value: Prefix

**- (NSData \*) TRI\_OPTIC\_SUFFIX**

Specifies the **Tri-Optic** suffix

Return Value: Suffix

**- (int) TRIGGER\_BUTTON\_PUSHTIME\_FOR\_CONNECTION**

This returns the Trigger Button Push Time for Connection settings.

Return Value:

0: Disable Trigger Connection	50:1 sec	100:2 sec	150:3 sec	200:4 sec
250:5 sec	300:6 sec	350:7 sec	400:8 sec	450:9 sec

**- (int) TRIGGER\_BUTTON\_PUSHTIME\_FOR\_DISCONNECT**

This returns the Trigger Button Push Time for Disconnection settings.

Return Value:

0: Disable Trigger Disconnect	50:1 sec	100:2 sec	150:3 sec	200:4 sec
250:5 sec	300:6 sec	350:7 sec	400:8 sec	450:9 sec

**- (int) TRIGGER\_CONNECTION\_ENABLE**

This returns the Trigger Connection settings.

Return Value:

0: Disable 1: Enable

**- (int) TRIGGER\_MODE\_ENABLE**

This returns the Trigger Mode settings.

Return Value:

0: Disable Trigger 1: Enable Trigger

**- (int) TRIGGER\_REPEAT\_ENABLE**

This returns the Trigger Repeat settings.

Return Value:

0: Disable 1: Enable

**- (BOOL) UK\_PLESSEY\_PERMISSION**

This returns the enable **Code 128** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (NSData \*) UKPLESSEY\_PREFIX**

Specifies the **UK/Plessey** prefix

Return Value: Prefix

**- (NSData \*) UKPLESSEY\_SUFFIX**

Specifies the **UK/Plessey** suffix

Return Value: Suffix

**- (BOOL) UPC\_A\_E\_Addon2\_PERMISSION**

This returns the enable **UPC-A/E (Add On2)** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (BOOL) UPC\_A\_E\_Addon5\_PERMISSION**

This returns the enable **UPC-A/E (Add On5)** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (BOOL) UPC\_A\_E\_PERMISSION**

This returns the enable **UPC-A/E** scanning settings.

Return Value:

YES: Enable NO: Disable

**- (int) UPC\_A\_TRANSMIT**

This returns the **UPC-A** CD transmit settings.

Return Value:

1: 13-digit (transmit CD and read start 0)

2: 12-digit (do not read start 0)

3: 12-digit (do not transmit CD)

0: 11-digit (do not read 0 or transmit CD)



- *(BOOL) UPC\_A\_TRANSMIT\_CD\_B2*

This returns the **UPC-A** CD transmit settings.

Return Value:

xsw7 2bit

- *(BOOL) UPC\_A\_TRANSMIT\_CD\_B4*

This returns the **UPC-A** CD transmit settings.

Return Value:

xsw7 4bit

- *(int) UPC\_E\_TRANSMIT*

This returns the **UPC-E** CD transmit settings.

Return Value:

1: 8-digit (transmit CD and read 0)

2: 7-digit (do not read 0)

3: 7-digit (do not transmit CD)

0: 6-digit (do not read 0 or transmit CD)

- *(BOOL) UPC\_E\_TRANSMIT\_CD\_B2*

This returns the **UPC-E** CD transmit settings.

Return Value:

xsw8 2bit

- *(BOOL) UPC\_E\_TRANSMIT\_CD\_B4*

This returns the **UPC-E** CD transmit settings.

Return Value:

xsw8 4bit

- *(NSData \*) UPCA\_ADDON\_PREFIX*

Specifies the **UPC-A** Add On prefix

Return Value: Prefix

- *(NSData \*) UPCA\_ADDON\_SUFFIX*

Specifies the **UPC-A** Add On suffix

Return Value: Suffix

- *(NSData \*) UPCA\_PREFIX*

Specifies the **UPC-A** prefix

Return Value: Prefix

- *(NSData \*) UPCA\_SUFFIX*

Specifies the **UPC-A** suffix

Return Value: Suffix

- *(NSData \*) UPCE\_ADDON\_PREFIX*

Specifies the **UPC-E** Add On prefix

Return Value: Prefix

- *(NSData \*) UPCE\_ADDON\_SUFFIX*

Specifies the **UPC-E** Add On suffix

Return Value: Suffix

- *(NSData \*) UPCE\_PREFIX*

Specifies the **UPC-E** prefix

Return Value: Prefix

- *(NSData \*) UPCE\_SUFFIX*

Specifies the **UPC-E** suffix

Return Value: Suffix

- *(int) USB\_CONNECTION*

This returns the USB Connection COM transmit settings.

Return Value:

0: Disable 1: Enable

- *(BOOL) WPC\_UPC\_EAN\_JAN\_CD\_CALCULATION*

This returns the **WPC (UPC, EAN, JAN)** CD calculation settings.

Return Value:

YES: calculate CD NO: do not calculate CD

- *(BOOL) GOOD\_READ\_VIBRATOR\_ENABLE*

This returns the Vibration settings.

Return Value:

YES: Enable NO: Disable

- *(NSData \*) INTELLIGENT\_MAIL\_PREFIX*

Specifies the **Intelligent Mail** prefix

Return Value: Prefix

- *(NSData \*) POSTNET\_PREFIX*

Specifies the **Postnet** prefix

Return Value: Prefix

- *(NSData \*) JAPANESE\_POSTAL\_PREFIX*

Specifies the **Japanese postal** prefix

Return Value: Prefix

- *(NSData \*) CODABLOCK\_F\_PREFIX*

Specifies the **CodablockF** prefix

Return Value: Prefix

- *(NSData \*) DATA\_MATRIX\_ECC200\_ECC000\_140\_PREFIX*

Specifies the **Data Matrix (ECC200, ECC000-140)** prefix

Return Value: Prefix

- *(NSData \*) AZTEC\_CODE\_RUNES\_PREFIX*

Specifies the **Aztec code/Aztec runes** prefix

Return Value: Prefix

- (NSData \*) *CHINESE\_SENSIBLE\_CODE\_PREFIX*

Specifies the **Chinese Sensible code** prefix

Return Value: Prefix

- (NSData \*) *QR\_MICRO\_QR\_PREFIX*

Specifies the **QR/MicroQR** prefix

Return Value: Prefix

- (NSData \*) *MAXI\_CODE\_PREFIX*

Specifies the **Maxi code** prefix

- (NSData \*) *COMPOSITE\_ON\_GS1\_DATABAR\_ON\_UPC\_EAN\_PREFIX*

Specifies the **Composite (on GS1 Databar, UPC/EAN)** prefix

Return Value: Prefix

- (NSData \*) *INTELLIGENT\_MAIL\_SUFFIX*

Specifies the **Intelligent Mail** suffix

Return Value: Suffix

- (NSData \*) *POSTNET\_SUFFIX*

Specifies the **Postnet** suffix

Return Value: Suffix

- (NSData \*) *JAPANESE\_POSTAL\_SUFFIX*

Specifies the **Japanese postal** suffix

Return Value: Suffix

- (NSData \*) *CODABLOCK\_F\_SUFFIX*

Specifies the **CodablockF** suffix

Return Value: Suffix

- (NSData \*) *DATA\_MATRIX\_ECC200\_ECC000\_140\_SUFFIX*

Specifies the **Data Matrix (ECC200, ECC000-140)** suffix

Return Value: Suffix

- (*NSData \**) *AZTEC\_CODE\_RUNES\_SUFFIX*

Specifies the **Aztec code/Aztec runes** suffix

Return Value: Suffix

- (*NSData \**) *CHINESE\_SENSIBLE\_CODE\_SUFFIX*

Specifies the **Chinese Sensible** code suffix

Return Value: Suffix

- (*NSData \**) *QR\_MICRO\_QR\_SUFFIX*

Specifies the **QR/MicroQR** suffix

Return Value: Suffix

- (*NSData \**) *MAXI\_CODE\_SUFFIX*

Specifies the **Maxi code** suffix

Return Value: Suffix

- (*NSData \**) *COMPOSITE\_ON\_GS1\_DATABAR\_ON\_UPC\_EAN\_SUFFIX*

Specifies the **Composite (on GS1 Databar, UPC/EAN)** suffix

Return Value: Suffix

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★ Disclaimer

- This document has been carefully edited in order to minimize the number of mistakes and clerical errors. Opticon bears no responsibility regarding any direct loss or damage to the customer based on the off-chance of potential mistakes within this document.
  - This document is subject to change without notice due to revisions made in the official specification manual.
  - The following terminology utilized in this document are the properties of the below companies.
- \* Bluetooth is the trademark of Bluetooth SIG, USA.
- \* All other company and products named within this document are properties of their owners.

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