

Epson ePOS SDK for iOS User's Manual

Functionality

How to Use

API Reference

Device Specifications

Sample Programs

Application Guide

Appendix

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Safety Precautions

Meaning of Symbols

The following symbols are used in this manual. Make sure to understand the meaning of these symbols before using the product.



Describes usage precautions that must be observed. Incorrect handling due to the disregard of this information may result in product failure or incorrect operation.



Describes additional explanation or other useful information.

Usage Limitations

Please use our products in environments and systems designed with consideration to safety and disaster recovery such as fail-safe configurations and redundant designs, for example, if this product is used in applications in which a high level of reliability and safety in functionality and precision is required such as in aircraft, trains, ships, automobiles and other transportation-related applications or in crime prevention equipment and safety equipment.

This product is not intended for use in applications that require extremely high levels of reliability and safety such as in aerospace equipment, trunk-line communications equipment, nuclear power control equipment, and medical equipment. Consider your usage environment and requirements carefully before using this product in such applications.

About this Manual

Purpose of this Manual

This manual provides the information necessary to develop applications using Epson ePOS SDK for iOS.

Organization of this Manual

This manual is organized into the following chapters.

Chapter 1	Functionality
Chapter 2	How to Use
Chapter 3	API Reference
Chapter 4	Device Specifications
Chapter 5	Sample Programs
Chapter 6	Application Guide
Appendix	Open Source Licensing

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Functionality

Epson ePOS SDK for iOS is an SDK for developing iOS applications. Using Epson ePOS SDK for iOS enables the use of simple code to control TM printers. With TM intelligent printers, you can control TM printers connected to the network, customer displays and POS peripheral devices such as barcode scanners connected to the TM printer. You can also develop applications that take advantage of unique TM intelligent printer functions such as the spooler function and communication box.

In this manual, printers are classified as follows.

Type	Description
TM Printers	Standard and mobile models of receipt printers
TM Intelligent Printers	TM-DT series and TM-i series printers
Network Printers	TM printers that can be controlled only via TM intelligent printers

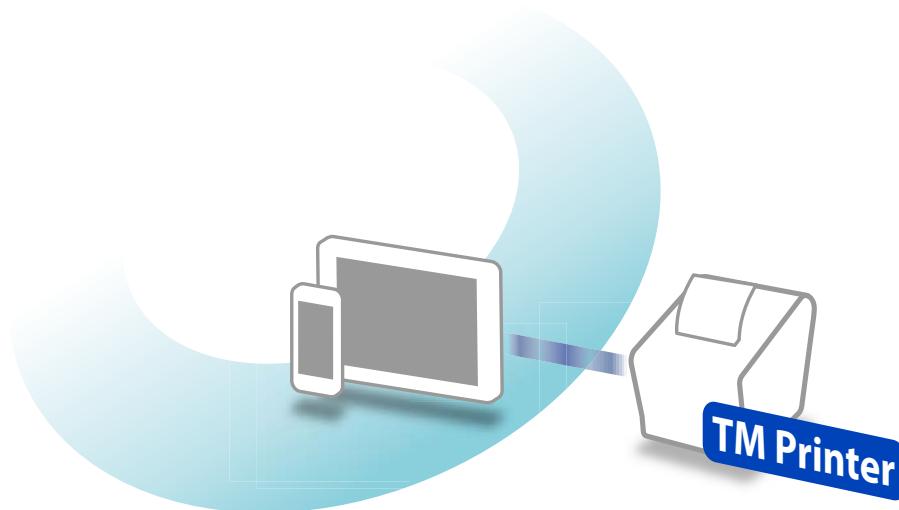
Application Development in Epson ePOS SDK for iOS

The following section describes the system configurations of applications developed in Epson ePOS SDK for iOS.

Refer to the Technical Reference Guide of each printer for information on system configuration methods.

Bluetooth model

With this system, a smart device and a TM printer are connected via *Bluetooth®* communication.

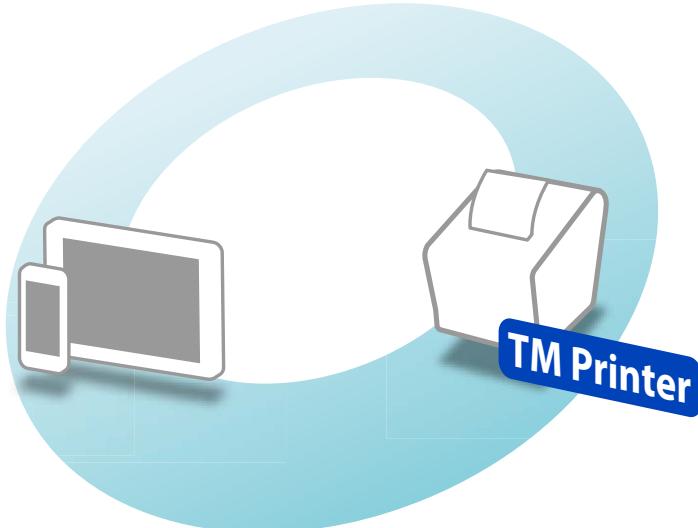


Epson must apply with Apple in advance to register applications using *Bluetooth®* communication in the App Store. Use the following URL to apply for registration of each application into the App Store.

<https://c4b.epson-biz.com/ais/E/>

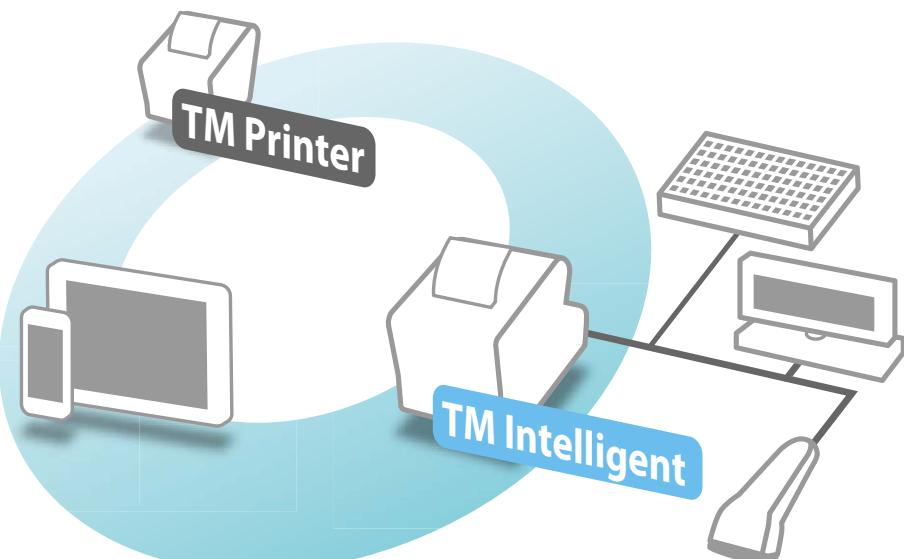
Network model

With this system, smart devices and TM printers connect over the network (wired and wireless LAN). Multiple TM printers can also be controlled.



TM intelligent printer model

With this system, smart devices and TM intelligent printers connect over the network (wired and wireless LAN). POS peripheral devices connected to TM intelligent printers as well as multiple TM printers can also be controlled.



The POS peripheral devices and TM printers that can be controlled by TM intelligent printers varies depending on the TM-DT software and TM-i firmware. The POS peripheral devices and TM printers you want to use must be registered to the TM intelligent printer using the EPSON TMNet WebConfig.

Refer to the Technical Reference Guide of each printer for more information.

Epson ePOS SDK for iOS Development Environment

The following development environment needs to be prepared to develop applications using the Epson ePOS SDK for iOS.

- Xcode Version 5.0 or later



Epson ePOS SDK for iOS is compatible with Bitcode.

Application Operating Environment

This section describes the operating environment for applications developed using the Epson ePOS SDK for iOS. For the most recent information on applicable smart devices, refer to the README.en.txt file contained in the "Epson ePOS SDK for iOS" package.

Supported printers

The following list of printers can be controlled from the applications.

TM Printers

Usable interfaces vary depending on the specific TM printer. Refer to the Technical Reference Guide of each printer for more information.

- TM-m10
- TM-m30
- TM-P20
- TM-P60
- TM-P60II
- TM-P80
- TM-T20
- TM-T20II
- TM-T60
- TM-T70
- TM-T70II
- TM-T81II
- TM-T82
- TM-T82II
- TM-T88V
- TM-T88VI
- TM-U220
- TM-U330

TM Intelligent Printers

- TM-T70II-DT
- TM-T88V-DT
- TM-H6000IV-DT
- TM-T20II-i

- TM-T70-i (TM-i firmware Ver. 4.0 or later)
- TM-T82II-i
- TM-T83II-i
- TM-T88V-i (TM-i firmware Ver. 4.0 or later)
- TM-U220-i

Network Printers

- TM-L90
- TM-T88IV
- TM-T90
- TM-H6000IV

Downloadable Content

Packages

Epson ePOS SDK for iOS packages include the following files.

Filename	Description
ePOS2.h	This is a header file that includes class definitions and pre-defined constants of error values and device types.
libepos2.a	Libraries used for execution of functions. (Supports armv6, armv7, armv7s, arm64, i386, and x86_64)
ePOSEasySelect.h	Header files that enable simple printer selection.
libposeeasyselect.a	Libraries used for functions that enable easy printer selection.
ePOS2_Sample_iOS.zip	These files are sample programs.
README.jp.txt	This is the Japanese README file.
README.en.txt	This is the English README file.
EULA.jp.txt	This is the Japanese software license agreement.
EULA.en.txt	This is the English software license agreement.
ePOS_SDK_iOS_um_ja_revx.pdf	This is the Japanese user manual.
ePOS_SDK_iOS_um_en_revx.pdf	This is the English user manual.
ePOS_SDK_iOS_Migration_Guide_ja_revx.pdf	This is the Japanese migration guide. This guide describes the procedure to migrate from the ePOS-Print SDK or ePOS-Device SDK.
ePOS_SDK_iOS_Migration_Guide_en_revx.pdf	This is the English migration guide.

Web Content

Online reference is publicly available from the following website.

<https://reference.epson-biz.com/pos/reference/>

Limitations

- When using 2D barcode readers, Japanese and other multi-byte characters cannot be read correctly.
- Control codes cannot be read from 2D barcode data if it contains ASCII control codes (0x00 through 0x1F).
- The number of device ports that can be simultaneously opened in the same application is 16 ports.
- Communication will be disrupted if a terminal enters sleep mode while communicating with a printer via a *Bluetooth* connection.

- When connecting via *Bluetooth* and sending print data to devices that cannot print, the print data may be deleted depending on the specifications of the particular iOS version. Devices cannot print under the following circumstances.
 - The roll-paper cover is open.
 - The printer is out of paper.
 - Waiting for printed labels to be separated.

How to Use

This section describes how to create Epson ePOS SDK for iOS projects and some basic programming methods used in the Epson ePOS SDK for iOS.

Printer Connections

Connect smart devices and printers using a connection method that matches the system you want to create.

Refer to the Technical Reference Guide of each printer for more information.

Creating an Epson ePOS SDK for iOS Project



You can get Xcode from the following URL.

<https://developer.apple.com/>

- 1 Create a new project in Xcode.
- 2 Allocate the following provided Objective-C headers to the desired layer of the project in the Xcode **Project Navigator**.
 - ePOS2.h
 - ePOSEasySelect.h
- 3 Drag the following provided static libraries to the desired layer of the project in the Xcode **Project Navigator**.
 - libepos2.a
 - libposeeasyselect.a
- 4 Select the project files in the root location from the **Project Navigator**.
- 5 Select **Build Phase** from **Targets**.
- 6 Expand **Link Binary With Libraries** and the click "+".
- 7 Select **libxml2.2.*** and **ExternalAccessory.framework** and then click **Add**.
- 8 Describe the import definitions for the Objective-C headers in the *.m source files for the application you want to use. Refer to the following documents.

```
#import "ePOS2.h"
#import "ePOSEasySelect.h"
```

9 When the *Bluetooth* is used, set the protocol name.

Set the protocol name according to the following procedure:

Key	Type	Value
Localization native development region	String	en
Bundle display name	String	\${PRODUCT_NAME}
Executable file	String	\${EXECUTABLE_NAME}
Bundle identifier	String	test.\${PRODUCT_NAME}identifier
InfoDictionary version	String	6.0
Bundle name	String	\${PRODUCT_NAME}
Bundle OS Type code	String	APPL
Bundle versions string, short	String	1.0
Bundle creator OS Type code	String	?????
Bundle version	String	1.0
Application requires iPhone environment	Boolean	YES
► Required device capabilities	Array	(1 item)
► Supported interface orientations	Array	(3 items)
▼ Supported external accessory protocols	Array	(1 item)
Item 0	String	com.epson.escpos

1. In Project Navigator, select xxxx.plist. (The file name will be Project name-info.)
2. In the pop-up menu, select Add Row.
3. Select "Supported external accessory protocols".
4. Expand the items added in Step 3.
5. Enter com.epson.escpos as the Value for Item 0.

Programming Guide

This section describes some of the basic programming methods used in the Epson ePOS SDK for iOS.

Programming Flow

This section describes a flow to create a program for controlling printers or POS peripheral devices respectively.

- [Controlling Printers](#)
- [Controlling Customer Displays](#)
- [Controlling Keyboards and Barcode Scanners](#)

Controlling Printers

This section describes how to create a program that enables printing receipts from a TM printer, a TM intelligent printer, or a TM printer connected to a TM intelligent printer via a network.

1. Printer selection (class initialization)



2. Creating print data (data buffering)



3. Sending print data (connection with the devices/communication/printing/disconnection)

Printer selection (class initialization)

Initialize the Epos2Printer class and select the printer to control.

```
Epos2Printer *printer = nil;
printer = [[Epos2Printer alloc] initWithPrinterSeries:EPOS2_TM_T88
lang:EPOS2_MODEL_ANK];
if (printer == nil) {
    //Displays error messages
}
```

Register the callback method for response document receive events.

```
[printer setReceiveEventDelegate:self];
```

Creating print data (data buffering)

Use addxx API commands in the Epos2Printer class to create print data.

```
int result = EPOS2_SUCCESS;
result = [printer addTextAlign:EPOS2_ALIGN_CENTER];
result = [printer addText:@"Hello World"];
if (result != EPOS2_SUCCESS) {
    //Displays error messages
}
```

Sending print data (connection with the devices/communication/printing/disconnection)

Connect to the printer to which the created print data will be sent.

```
int result = EPOS2_SUCCESS;
result = [printer connect:@"TCP:192:168.192.168", timeout:EPOS2_PARAM_DEFAULT];
result = [printer beginTransaction];
if (result != EPOS2_SUCCESS) {
    //Displays error messages
}
```

Run the print process and retrieve the print result in the callback. Do not add an API command in the callback.

```
Epos2PrinterStatusInfo *status = nil;
status = [printer getStatus];
if (status.getConnection && status.getOnline) {
    result = [printer sendData:EPOS2_PARAM_DEFAULT];
} else {
    //Displays error messages
    //Abort process
}

- (void) onPtrReceive:(Epos2Printer *)printerObj code:(int)code
status:(Epos2PrinterStatusInfo *)status printJobId:(NSString *)printJobId
{
if (code == EPOS2_CODE_SUCCESS) {
    //Displays successful print messages
}
else {
    //Displays error messages
}
//Abort process
}
```

Disconnect from the printer.

```
int result = EPOS2_SUCCESS;
result = [printer endTransaction];
result = [printer disconnect];
```

Clear the command buffer and terminate the printer control.

```
[printer clearCommandBuffer];
[printer setReceiveEventDelegate:nil];
printer = nil;
```

Controlling Customer Displays

This section describes the programming methods for controlling customer displays and displaying text on displays.

1. Device selection (class initialization)



2. Creating display data (data buffering)



3. Sending display data (connection with the devices/communication/printing/disconnection)

Device selection (class initialization)

Initialize the Epos2LineDisplay class and connect to the customer display.

```
Epos2Display *display = nil;
display = [[Epos2Display alloc] initWithDisplaySeries:EPOS2_DM_D30]
if (display == nil) {
    //Displays error messages
}
```

Register the callback method for response document receive events.

```
[display setReceiveEventDelegate:self];
```

Creating display data (data buffering)

Use addxx API commands in the Epos2LineDisplay class to create display data.

In the following example, data is created to display "Hello World".

```
int result = EPOS2_SUCCESS;
result = [display addText:@"Hello World"];
if (result != EPOS2_SUCCESS) {
    //Displays error messages
}
```

Sending display data (connection with the devices/communication/printing/disconnection)

Connect the customer display to which created display data will be sent.

```
int result = EPOS2_SUCCESS;
result = [display connect:@""TCP:192.168.192.168", timeout:EPOS2_PARAM_DEFAULT];
if (result != EPOS2_SUCCESS) {
    //Displays error messages
}
```

Run the display process and retrieve the display result.

```
Epos2DisplayStatusInfo *status = nil;
status = [display getStatus];
if (status.connection && status.online) {
    result = [display sendData];
} else{
    //Displays error messages
    //Abort process
}

- (void) onDispReceive:(Epos2LineDisplay *)displayObj code:(int)code
{
if (code == EPOS2_CODE_SUCCESS) {
    //Displays successful print messages
}
else {
    //Displays error messages
}
    //Abort process
}
```

Disconnect from the customer display.

```
int result = EPOS2_SUCCESS;
result = [display disconnect];
if (result != EPOS2_CODE_SUCCESS) {
    //Displays error messages
}
```

Clear the command buffer and terminate the customer display control.

```
[display clearCommandBuffer];
[display setReceiveEventDelegate:nil];
display = nil;
```

Controlling Keyboards and Barcode Scanners

This section describes how to create a program that enables receiving data input from keyboards and barcode scanners.

The following section describes the programming flow for controlling keyboards.

1. Connecting to the device



2. Receiving data



3. Disconnecting from the device

Connecting to the device

Initialize the Epos2Keyboard class, connect the keyboard, and then register the callback method that will receive input data.

```
//Initialization process
EPOS2Keyboard keyboard_ = [[EPOS2Keyboard alloc] init];
if (keyboard_ == nil) {
    //Displays error messages
}
[keyboard_ setReadStringEventDelegate:self];

//Connection process
int result = EPOS2_SUCCESS;

result = [keyboard_ connect:@"TCP:192.168.192.168[local_keyboard]"
timeout:EPOS2_PARAM_DEFAULT];
if (result != EPOS2_SUCCESS) {

    //Displays error messages
    //Abort process
}
```

Receiving data

Register the callback method for key press events.

```
//Receive process
- (void)onKbdKeyPress:(EPOS2Keyboard *)keyboardObj keyCode:(int)keyCode
ascii:(NSString *)ascii
{
    switch (keyCode) {
        case EPOS2_VK_RETURN:
            //Process executed when the Return key is pressed
            break;

        default:
            //Process executed when the any key is pressed
            break;
    }
}
```

Disconnecting from the device

Disrupt communication to terminate the reception of input data from the keyboard.

```
//Abort process
int result = [keyboard_ disconnect];

if (result != EPOS2_SUCCESS) {
    //Error message
}

//Termination process
[keyboard_ setReadStringEventDelegate:nil];
keyboard_ = nil;
```

Effective range of command buffers for setting

The effective range of addXXX in the Epos2Printer class instance used for setting is from the time when addXXX is set until sendData is executed. The set value is initialized each time sendData is executed. Refer to the following:

```
[printer addText:@"Hello World!\n"];
[printer addTextFont:EPOS2_FONT_B];
[printer addText:@"Hello World!\n"];
[printer addText:@"Hello World!\n"];
[printer sendData:EPOS2_PARAM_DEFAULT];
[printer clearCommandBuffer];
[printer addText:@"Hello World!\n"];
[printer sendData:EPOS2_PARAM_DEFAULT];
[printer clearCommandBuffer];
```

Red letters: Font A

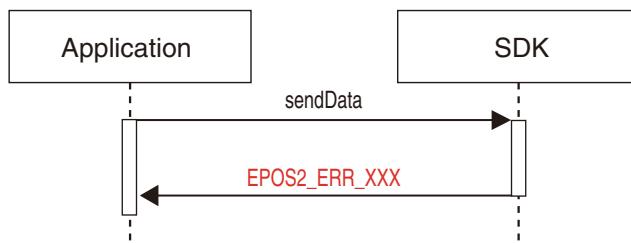
Green letters: Font B

Status

The following statuses are defined in the Epson ePOS SDK for iOS.

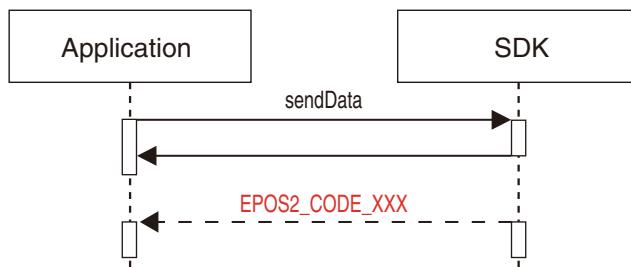
Error status

Indicates a result of sending data to devices in each class. The result is sent immediately as an exception of API. Refer to [Error Status and countermeasures](#) for more information.



Callback code

Indicates a device's processing result for a [sendData](#). Notified in a print completion event ([onPtrReceive](#) / [onDispReceive](#)). Refer to [Callback Codes and countermeasures](#) for more information.



Printer status

Indicates the status of printers when sending print data. The printer status is retrieved when executing [sendData](#). Refer to [Printer Status and countermeasures](#) for more information.

API Reference

This chapter describes the APIs provided by Epson ePOS SDK for iOS.

List of ePOS SDK API

Epson ePOS SDK for iOS provides the following classes:

Available APIs and parameters vary by printer model and peripheral device. Refer to [Supported printers for each class](#).

- ❑ [Epos2Printer class](#)
- ❑ [Epos2LineDisplay class](#)
- ❑ [Epos2Keyboard class](#)
- ❑ [Epos2BarcodeScanner class](#)
- ❑ [Epos2SimpleSerial class](#)
- ❑ [Epos2CommBox class](#)
- ❑ [Common to all classes](#)
- ❑ [Epos2Discovery class](#)
- ❑ [Epos2Log class](#)
- ❑ [Epos2BluetoothConnection class](#)
- ❑ [EasySelect class](#)
- ❑ [EasySelectInfo class](#)

Epos2Printer class

Controls printing by the printer.

Two print modes are available; standard and page modes.

- Standard mode

Prints line by line. Line spacing is automatically adjusted according to character size, image size, and barcode height. Suitable for printing receipts whose print length varies by print content.

- Page mode

Prints page by page. Prints characters, images, and/or barcodes on a single page that is defined as a print area.

To print in the page mode, use [addPageBegin](#) and [addPageEnd](#) to start and end the page mode process, respectively.

API		Description	Standard mode	Page mode
Initialization	initWithPrinterSeries	Initializes the Epos2Printer class.	-	-
Communication path	connect	Connects to the printer.	-	-
	disconnect	Disconnects from the printer.	-	-
Status monitor	startMonitor	Enables status event notification.	<input type="radio"/>	<input type="radio"/>
	stopMonitor	Disables status event notification.	<input type="radio"/>	<input type="radio"/>

API		Description	Standard mode	Page mode
Status acquisition	getStatus	Acquires status of the connected printer.	<input type="radio"/>	<input type="radio"/>
Transmission	sendData	Sends a command to the printer.	<input type="radio"/>	<input type="radio"/>
Transaction	beginTransaction	Starts a transaction.	<input type="radio"/>	<input type="radio"/>
	endTransaction	Ends a transaction.	<input type="radio"/>	<input type="radio"/>
Print job	requestPrintJobStatus	Acquires the print result.	<input type="radio"/>	<input type="radio"/>
Buffer clear	clearCommandBuffer	Clears the command buffer.	<input type="radio"/>	<input type="radio"/>
Text	addTextAlign	Adds text alignment setting to the command buffer.	<input type="radio"/>	<input checked="" type="radio"/>
	addLineSpace	Adds line spacing setting to the command buffer.	<input type="radio"/>	<input type="radio"/>
	addTextRotate	Adds text rotation setting to the command buffer.	<input type="radio"/>	<input checked="" type="radio"/>
	addText	Adds text to print to the command buffer.	<input type="radio"/>	<input type="radio"/>
	addTextLang	Adds language setting to the command buffer.	<input type="radio"/>	<input type="radio"/>
	addTextFont	Adds character font setting to the command buffer.	<input type="radio"/>	<input type="radio"/>
	addTextSmooth	Adds character smoothing setting to the command buffer.	<input type="radio"/>	<input type="radio"/>
	addTextSize	Adds character scaling factor setting to the command buffer.	<input type="radio"/>	<input type="radio"/>
	addTextStyle	Adds character style setting to the command buffer.	<input type="radio"/>	<input type="radio"/>
	addHPosition	Adds character print position setting to the command buffer.	<input type="radio"/>	<input type="radio"/>
Paper feed	addFeedUnit	Adds paper-feed setting in dots to the command buffer.	<input type="radio"/>	<input type="radio"/>
	addFeedLine	Adds paper-feed setting in lines to the command buffer.	<input type="radio"/>	<input type="radio"/>
Graphics	addImage	Adds a raster image print command to the command buffer.	<input type="radio"/>	<input type="radio"/>
	addLogo	Adds a NV logo print command to the command buffer.	<input type="radio"/>	<input type="radio"/>
Barcode	addBarcode	Adds a barcode print command to the command buffer.	<input type="radio"/>	<input type="radio"/>
	addSymbol	Adds a 2D symbol print command to the command buffer.	<input type="radio"/>	<input type="radio"/>

API		Description	Standard mode	Page mode
Ruled line	addHLine	Adds a horizontal ruled line print command to the command buffer.	<input type="radio"/>	<input checked="" type="checkbox"/>
	addVLineBegin	Adds a vertical ruled line start command to the command buffer.	<input type="radio"/>	<input checked="" type="checkbox"/>
	addVLineEnd	Adds a vertical ruled line end command to the command buffer.	<input type="radio"/>	<input checked="" type="checkbox"/>
Page mode	addPageBegin	Adds a page mode start command to the command buffer.	<input type="radio"/>	<input checked="" type="checkbox"/>
	addPageEnd	Adds a page mode end command to the command buffer.	<input checked="" type="checkbox"/>	<input type="radio"/>
	addPageArea	Adds page mode print area setting to the command buffer.	<input checked="" type="checkbox"/>	<input type="radio"/>
	addPageDirection	Adds page mode print direction setting to the command buffer.	<input checked="" type="checkbox"/>	<input type="radio"/>
	addPagePosition	Adds page mode print position setting to the command buffer.	<input checked="" type="checkbox"/>	<input type="radio"/>
	addPageLine	Adds a page mode line draw command to the command buffer.	<input checked="" type="checkbox"/>	<input type="radio"/>
	addPageRectangle	Adds a page mode rectangle draw command to the command buffer.	<input checked="" type="checkbox"/>	<input type="radio"/>
Cut	addCut	Adds a sheet cut command to the command buffer.	<input type="radio"/>	<input checked="" type="checkbox"/>
Drawer	addPulse	Adds a drawer kick command to the command buffer.	<input type="radio"/>	<input checked="" type="checkbox"/>
Buzzer	addSound	Adds a buzzer sound command to the command buffer.	<input type="radio"/>	<input checked="" type="checkbox"/>
Label sheet/ black mark sheet	addFeedPosition	Adds a paper feed command to the command buffer.	<input type="radio"/>	<input checked="" type="checkbox"/>
	addLayout	Adds sheet layout setting to the command buffer.	<input type="radio"/>	<input checked="" type="checkbox"/>
Command	addCommand	Adds a command to the command buffer.	<input type="radio"/>	<input type="radio"/>

API		Description
Forced transmission	forceRecover	Forced transmission function
	forcePulse	
	forceStopSound	
	forceCommand	
	forceReset	

API		Description
Reception of result	setStatusChangeEventDelegate	Registers the callback method for an event.
	setReceiveEventDelegate	
Monitor interval	interval	Status monitor interval

Epos2LineDisplay class

Controls character display on the customer display.

API		Description
Initialization	initWithDisplaySeries	Initializes the Epos2LineDisplay class.
Communication path	connect	Connects to the customer display.
	disconnect	Disconnects from the customer display.
Status acquisition	getStatus	Acquires status of the connected device.
Transmission	sendData	Sends a command to the customer display.
Buffer clear	clearCommandBuffer	Clears the command buffer.
Reset	addInitialize	Initializes the customer display.
Window	addCreateWindow	Adds a process to execute to the command buffer.
	addDestroyWindow	
	addSetCurrentWindow	
	addClearCurrentWindow	
Cursor	addSetCursorPosition	
	addMoveCursorPosition	
	addSetCursorType	
Text display	addText	
	addReverseText	
	addMarqueeText	
Display setting	addSetBlink	
	addSetBrightness	
Clock	addShowClock	
Command transfer	addCommand	
Reception of result	setReceiveEventDelegate	Registers the callback method for an event.

Epos2Keyboard class

Controls character entry from the keyboard.

API		Description
Initialization	<code>init</code>	Initializes the Epos2Keyboard class.
Communication path	<code>connect</code>	Connects to the keyboard.
	<code>disconnect</code>	Disconnects from the keyboard.
Status acquisition	<code>getStatus</code>	Acquires status of the connected device.
String setting	<code>setPrefix</code>	Sets the condition to handle as a continuous string.
String setting acquisition	<code>getPrefix</code>	Acquires the set prefix.
Key detection	<code>setKeyPressEventDelegate</code>	Registers the callback method for an event.
String detection	<code>setReadStringEventDelegate</code>	

Epos2BarcodeScanner class

Controls barcode reading by the barcode scanner.

API		Description
Initialization	<code>init</code>	Initializes the Epos2BarcodeScanner class.
Communication path	<code>connect</code>	Connects to the barcode scanner.
	<code>disconnect</code>	Disconnects from the barcode scanner.
Status acquisition	<code>getStatus</code>	Acquires status of the connected device.
Input data reception	<code>setScanEventDelegate</code>	Registers the callback method for an event.

Epos2SimpleSerial class

Controls serial communication between the printer and device.

API		Description
Initialization	<code>init</code>	Initializes the Epos2SimpleSerial class.
Communication path	<code>connect</code>	Connects to the serial.
	<code>disconnect</code>	Disconnects from the serial.
Status acquisition	<code>getStatus</code>	Acquires status of the connected device.

API		Description
Command transfer	sendCommand	Transfers a command.
Input data reception	setReceiveEventDelegate	Registers the callback method for an event.

Epos2CommBox class

Controls data transmission and reception using the communication box.

API		Description
Initialization	init	Initializes the Epos2CommBox class.
Communication path	connect	Connects to the communication box.
	disconnect	Disconnects from the communication box.
Status acquisition	getStatus	Acquires status of the connected device.
Transmission history	getCommHistory	Acquires the message transmission history.
Transmission	sendMessage	Sends a message to the communication box.
Reception	setReceiveEventDelegate	Registers the callback method for an event.

Common to all classes

These APIs can be used with all classes.

API		Description
Administration information	getAdmin	Acquires the administration information.
	getLocation	Acquires the installation location information.
Reconnection	setConnectionEventDelegate	Registers the callback method for an event.

Epos2Discovery class

Controls the device discovery function.

API		Description
Start	start	Starts device search.
Stop	stop	Stops device search.

Epos2Log class

Controls the log output function.

API		Description
Log	setLogSettings	Sets the log output function.
Version acquisition	SdkVersion	Acquires the Epson ePOS SDK version.

Epos2BluetoothConnection class

Controls pairing connection with a *Bluetooth* device.

API		Description
<i>Bluetooth</i> communication path	connectDevice	Establishes <i>Bluetooth</i> connection.
	disconnectDevice	Disconnects <i>Bluetooth</i> connection.

EasySelect class

EasySelect class and EasySelectInfo class offer API commands and member variables for selecting printers by using QR codes.

EasySelect class is for analyzing QR codes.

API		Description
Analyzing of QR codes	parseQR	Analyzes QR codes data.
Creation of QR codes	createQR	Creates QR code data that can be analyzed by parseQR.

EasySelectInfo class

This class is for storing data analyzed by `parseQR`. Specify the stored information in `connect` API to connect with the printer.

Member variables		Description
Printer type	<code>deviceType</code>	Stores printer type information.
Printer name	<code>printerName</code>	Stores a printer name.
MAC address/BD address	<code>macAddress</code>	Stores a MAC address or a BD address.

Epos2Printer Class

initWithPrinterSeries

Initializes the Epos2Printer class.

Syntax

```
- (id) initWithPrinterSeries:(int)printerSeries  
lang:(int)lang;
```

Parameter

printerSeries

Specifies the target printer model.

Value	Description
EPOS2_TM_M10	TM-m10
EPOS2_TM_M30	TM-m30
EPOS2_TM_P20	TM-P20
EPOS2_TM_P60	TM-P60 (Receipt/Peeler)
EPOS2_TM_P60II	TM-P60II (Receipt/Peeler)
EPOS2_TM_P80	TM-P80
EPOS2_TM_T20	TM-T20, TM-T20II, TM-T20II-i
EPOS2_TM_T60	TM-T60
EPOS2_TM_T70	TM-T70, TM-T70-i, TM-T70II, TM-T70II-DT
EPOS2_TM_T81	TM-T81II
EPOS2_TM_T82	TM-T82, TM-T82II, TM-T82II-i
EPOS2_TM_T83	TM-T83II-i
EPOS2_TM_T88	TM-T88IV, TM-T88V, TM-T88VI, TM-T88V-i, TM-T88V-DT
EPOS2_TM_T90	TM-T90
EPOS2_TM_U220	TM-U220, TM-U220-i
EPOS2_TM_U330	TM-U330
EPOS2_TM_L90	TM-L90
EPOS2_TM_H6000	TM-H6000IV, TM-H6000IV-DT

lang

Specifies the language of the printer.

Value	Description
EPOS2_MODEL_ANK	ANK model
EPOS2_MODEL_CHINESE	Simplified Chinese model
EPOS2_MODEL_TAIWAN	Taiwan model
EPOS2_MODEL_KOREAN	Korean model
EPOS2_MODEL_THAI	Thai model
EPOS2_MODEL_SOUTHASIA	South Asian model

Return value

If the process succeeds, an initialized Epos2Printer class instance will be returned.

If the process fails, nil will be returned. The process may fail due to the following reasons:

Error status	Description
EPOS2_ERR_PARAM	An invalid parameter was specified.
EPOS2_ERR_MEMORY	Memory could not be allocated.
EPOS2_ERR_UNSUPPORTED	A model name or language not supported was specified.

connect

Starts communication with the printer.

Syntax

```
- (int) connect:(NSString *)target  
timeout:(long)timeout;
```

Parameter

target

Specifies the connection target as a text string.

Use the following syntax:

- When connecting to the TM printer
<connection type>:<identifier>
- When connecting to the TM intelligent printer
When connecting to the network printer via the TM intelligent printer
<connection type>:<identifier>(<device ID>)

Device	Connection type	Identifier	Description
Wi-Fi/Ethernet device	"TCP"	<ul style="list-style-type: none"> IP address in IPv4 format MAC address Printer host name 	"TCP:192.168.192.168" "TCP:192.168.192.168(local_printer)"
Bluetooth device	"BT"	MAC address	"BT:00:22:15:7D:70:9C"

timeout

Specifies the maximum time (in milliseconds) to wait for communication with the printer to be established.

Value	Description
Integer from 1000 to 300000	Maximum wait time before an error is returned (in milliseconds).
EPOS2_PARAM_DEFAULT	Specifies the default value (15000).

Return value

The result of the API is returned.

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_CONNECT	Failed to open the device.
EPOS2_ERR_TIMEOUT	Failed to communicate with the devices within the specified time.

Error status	Description
EPOS2_ERR_ILLEGAL	Tried to start communication with a printer with which communication had been already established.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_NOT_FOUND	The printer could not be found.
EPOS2_ERR_IN_USE	The device was in use.
EPOS2_ERR_TYPE_INVALID	The device type is different.

Supplementary explanation

- ❑ When communication with the printer is no longer necessary, be sure to call [disconnect](#) to terminate it.
- ❑ The printer status is returned to the event registered with the Epos2Printer class.
Refer to Chapter 2 "Programming Flow" for details.
Refer to Chapter 6 "To use the same printer from multiple mobile devices" for details.
- ❑ The device ID is an arbitrary string that is set when the printer and POS peripheral devices are registered to the TM intelligent printer. For details, refer to the Technical Reference Guide of the printer.
- ❑ If you are using DHCP to assign the IP address of the printer, specify the MAC address or host name of the printer as the identifier.
- ❑ For TM-DT series, MAC address cannot be specified.
- ❑ If you specify the host name of the printer as the identifier, use in the environment where it can be found by the DNS server.
- ❑ When using *Bluetooth* communication, it is recommended to perform pairing before calling connect.
- ❑ For the TM intelligent printer, this API always succeeds without regard to the connection status between the printer and a peripheral device.

disconnect

Ends communication with the printer.

Syntax

```
- (int) disconnect;
```

Return value

The result of the API is returned.

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_ILLEGAL	Tried to end communication where it had not been established.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_DISCONNECT	Failed to disconnect the device.

startMonitor

Enables printer status event notification.

Acquires and updates the printer status at the interval specified with the [interval](#) property and returns it to the callback function registered by [setStatusChangeEventDelegate](#).

Syntax

```
- (int) startMonitor;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started.

Supplementary explanation

- ❑ Use this API after starting a communication with the printer (after executing the [connect](#) API).

stopMonitor

Disables status events.

Syntax

```
- (int) stopMonitor;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started.

getStatus

Acquires the current status information.

Syntax

- (PrinterStatusInfo *) getStatus;

Return value

The current status is returned in the PrinterStatusInfo type.

The following status information is stored in the object as a member.

Printer status	Status	Description
connection: Connection status	EPOS2_TRUE	Connected
	EPOS2_FALSE	Disconnected
online: Online status	EPOS2_TRUE	Online
	EPOS2_FALSE	Offline
	EPOS2_UNKNOWN	Status is unknown.
coverOpen: Cover status	EPOS2_TRUE	Cover is open.
	EPOS2_FALSE	Cover is closed.
	EPOS2_UNKNOWN	Status is unknown.
paper: Paper status	EPOS2_PAPER_OK	Paper remains.
	EPOS2_PAPER_NEAR_END	Paper is running out.
	EPOS2_PAPER_EMPTY	Paper has run out.
	EPOS2_UNKNOWN	Status is unknown.
paperFeed: Paper feed	EPOS2_TRUE	Paper feed in progress
	EPOS2_FALSE	Stopped
	EPOS2_UNKNOWN	Status is unknown.
panelSwitch: Panel switch (Feed button) status	EPOS2_SWITCH_ON	Pressed
	EPOS2_SWITCH_OFF	Not pressed
	EPOS2_UNKNOWN	Status is unknown.
waitOnline: Waiting for recovery to online	EPOS2_TRUE	Waiting for recovery
	EPOS2_FALSE	Online
	EPOS2_UNKNOWN	Status is unknown.
drawer: Offline status due to the battery level (TM-P series)	EPOS2_DRAWER_HIGH	High
	EPOS2_DRAWER_LOW	Low
	EPOS2_UNKNOWN	Status is unknown.

Printer status	Status	Description
drawer: Drawer kick connector pin No.3 status (except for the TM-P series)	EPOS2_DRAWER_HIGH	High
	EPOS2_DRAWER_LOW	Low
	EPOS2_UNKNOWN	Status is unknown.
errorStatus: Error status	EPOS2_NO_ERR	Normal
	EPOS2_MECHANICAL_ERR	Mechanical error occurred.
	EPOS2_AUTOCUTTER_ERR	Auto cutter error occurred.
	EPOS2_UNRECOVER_ERR	Unrecoverable error occurred.
	EPOS2_AUTORECOVER_ERR	Automatic recovery error occurred.
	EPOS2_UNKNOWN	Status is unknown.
autoRecoverError: Automatic recovery error status	EPOS2_NO_ERR	Normal
	EPOS2_HEAD_OVERHEAT	Head overheat error
	EPOS2_MOTOR_OVERHEAT	Motor driver IC overheat error
	EPOS2_BATTERY_OVERHEAT	Battery overheat error
	EPOS2_WRONG_PAPER	Paper error
	EPOS2_UNKNOWN	Unknown status
buzzer: Buzzer sound status	EPOS2_TRUE	Sounding
	EPOS2_FALSE	Stopped
	EPOS2_UNKNOWN	Status is unknown.
buzzer: Optional external buzzer sound status	EPOS2_TRUE	Always
adapter: AC adapter connection status	EPOS2_TRUE	Connected
	EPOS2_FALSE	Disconnected
	EPOS2_UNKNOWN	Status is unknown.

Printer status	Status	Description
batteryLevel: Remaining battery capacity	EPOS2_BATTERY_LEVEL_6	Remaining battery capacity 6
	EPOS2_BATTERY_LEVEL_5	Remaining battery capacity 5
	EPOS2_BATTERY_LEVEL_4	Remaining battery capacity 4
	EPOS2_BATTERY_LEVEL_3	Remaining battery capacity 3
	EPOS2_BATTERY_LEVEL_2	Remaining battery capacity 2
	EPOS2_BATTERY_LEVEL_1	Remaining battery capacity 1 (almost run out)
	EPOS2_BATTERY_LEVEL_0	Remaining battery capacity 0 (run out)
	EPOS2_UNKNOWN	Status is unknown.

Supplementary explanation

- ❑ If this API is called while communication is not available, printer states other than "connection" will be set to "EPOS2_UNKNOWN."
- ❑ The status object is set to the status at the timing of execution of this API and will not be updated.
- ❑ If this function is executed within a callback function, nil will be returned.

sendData

Sends the print command.

The return value of this API is the result of sending data to the devices.

The processing result of the devices using this API is returned to the callback method set by the [setReceiveEventDelegate](#) API of the Epos2Printer class.

This API sends data buffered by an add-type API (e.g., [addText](#)).

Syntax

```
- (int) sendData : (long) timeout ;
```

Parameter

timeout

Specifies the timeout period before completion of printing in milliseconds.

Value	Description
Integer from 5000 to 600000	Timeout period (in milliseconds)
EPOS2_PARAM_DEFAULT	Specifies the default value (10000).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_ILLEGAL	The control commands have not been buffered. This API was called while no communication had been started.

Supplementary explanation

For Bluetooth connection, the offline status may not be detected and a timeout error may occur. Refer to Chapter 6 "To use the same printer from multiple mobile devices" for details.

beginTransaction

Starts a transaction.

A transaction represents a single printing task such as printing a single sheet of receipt or coupon.

After this API is called, data until the transaction is terminated by [endTransaction](#) will be regarded as a single printing task.

Syntax

```
- (int) beginTransaction;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started. Another transaction had been already started by this function.
EPOS2_ERR_FAILURE	An unknown error occurred.

endTransaction

Ends a transaction.

A transaction represents a single printing task such as printing a single sheet of receipt or coupon.

After [beginTransaction](#) is called, data until the transaction is terminated by this API will be regarded as a single printing task.

Syntax

```
- (int) endTransaction;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started. This API was called while no transaction had been started.
EPOS2_ERR_FAILURE	An unknown error occurred.

requestPrintJobStatus

Acquires the print result for the specified print job ID.

Syntax

```
- (int) requestPrintJobStatus: (NSString*)printJobId;
```

Parameter

printJobId

Specifies the print job ID.

Alphanumeric characters, underscore, hyphen, and period in 1 to 30 digits can be used.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_CONNECT	Communication error
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.

Supplementary explanation

- ❑ The result of this API is returned to the callback method set by the [setReceiveEventDelegate](#) API of the Epos2Printer class.
- ❑ When multiple print processes were performed with the same print job ID, the status of the latest print job is acquired.

clearCommandBuffer

Clears the command buffer.

Syntax

```
- (int) clearCommandBuffer;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.

addTextAlign

Adds text alignment setting to the command buffer.

Syntax

```
- (int) addTextAlign:(int)align;
```

Parameter

align

Specifies alignment.

Value	Description
EPOS2_ALIGN_LEFT (default)	Left alignment
EPOS2_ALIGN_CENTER	Center alignment
EPOS2_ALIGN_RIGHT	Right alignment
EPOS2_PARAM_DEFAULT	Specifies the default value (left alignment).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ Use this API at the "beginning of a line." If this API is used elsewhere, it will be ignored.
- ❑ Setting of this API is also applied to the barcode/2D symbol.
- ❑ When specifying alignment in the page mode, use [addPagePosition](#) API instead of this API.

addLineSpace

Adds line spacing setting to the command buffer.

Syntax

```
- (int) addLineSpace:(long)linespc;
```

Parameter

linespc

Specifies the line spacing (in dots).

Value	Description
Integer from 0 to 255	Line spacing (in dots)

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addTextRotate

Adds text rotation setting to the command buffer.

Syntax

```
- (int) addTextRotate: (int)rotate;
```

Parameter

rotate

Enables or disables text rotation.

Value	Description
EPOS2_TRUE	Specifies text rotation.
EPOS2_FALSE (default)	Disables text rotation.
EPOS2_PARAM_DEFAULT	Specifies the default value (text rotation disabled).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ Use this API at the "beginning of a line." If this API is used elsewhere, it will be ignored.
- ❑ Setting of this API is also applied to the barcode/2D symbol.
- ❑ When specifying text rotation in the page mode, use [addPageDirection](#) API instead of this API.

addText

Adds a character print command to the command buffer.

Syntax

```
- (int) addText: (NSString *) data;
```

Parameter

data

Specifies the string to print.

Use the following escape sequences for a horizontal tab and line feed.

String	Description
\t	Horizontal tab (HT)
\n	Line feed (LF)
\\\	Back slash

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ To print data other than text after printing text, feed a line or page.
A line which does not end with a line feed will be discarded as unfixed data by the next [sendData](#).
- ❑ In the page mode, text is printed from the current print position with the base line dot of the characters as the standard.

addTextLang

Adds language setting to the command buffer.

A text string specified by the [addText](#) API is encoded according to the language specified by this API.

Syntax

```
- (int) addTextLang:(int)lang;
```

Parameter

lang

Specifies the target language.

Value	Description
EPOS2_LANG_EN (default)	English (ANK specification)
EPOS2_LANG_JA	Japanese
EPOS2_LANG_ZH_CN	Simplified Chinese
EPOS2_LANG_ZH_TW	Traditional Chinese
EPOS2_LANG_KO	Korean
EPOS2_LANG_TH	Thai (South Asian specification)
EPOS2_LANG_VI	Vietnamese (South Asian specification)
EPOS2_PARAM_DEFAULT	Specifies the default value (English).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

This API is called before the [addText](#) API.

addTextFont

Adds character font setting to the command buffer.

Syntax

```
- (int) addTextFont: (int) font;
```

Parameter

font

Specifies the font.

Value	Description
EPOS2_FONT_A (default)	Font A
EPOS2_FONT_B	Font B
EPOS2_FONT_C	Font C
EPOS2_FONT_D	Font D
EPOS2_FONT_E	Font E
EPOS2_PARAM_DEFAULT	Specifies the default value (font A).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addTextSmooth

Adds smoothing setting to the command buffer.

Syntax

```
- (int) addTextSmooth: (int) smooth;
```

Parameter

smooth

Enables or disables smoothing.

Value	Description
EPOS2_TRUE	Enables smoothing.
EPOS2_FALSE (default)	Disables smoothing.
EPOS2_PARAM_DEFAULT	Specifies the default value (smoothing disabled).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addTextSize

Adds character scaling factor setting to the command buffer.

Syntax

```
- (int) addTextSize: (long)width height: (long)height;
```

Parameter

width

Specifies the horizontal scaling of characters.

Value	Description
Integer from 1 to 8	Specifies the horizontal scaling factor rate (default: 1).
EPOS2_PARAM_DEFAULT	Specifies the default value (1).
EPOS2_PARAM_UNSPECIFIED	Not specify.

height

Specifies the vertical scaling of characters.

Value	Description
Integer from 1 to 8	Specifies the vertical scaling factor rate (default: 1).
EPOS2_PARAM_DEFAULT	Specifies the default value (1).
EPOS2_PARAM_UNSPECIFIED	Not specify.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

If all the parameters are set to "EPOS2_PARAM_UNSPECIFIED," EPOS2_ERR_PARAM will be returned.

addTextStyle

Adds character style setting to the command buffer.

Syntax

```
- (int) addTextStyle:(int)reverse ul:(int)ul em:(int)em
color:(int)color;
```

Parameter

reverse

Enables or disables the reverse style.

Value	Description
EPOS2_TRUE	Enables the reverse style.
EPOS2_FALSE (default)	Disables the reverse style.
EPOS2_PARAM_UNSPECIFIED	Not specify.
EPOS2_PARAM_DEFAULT	Specifies the default value (reverse style disabled).

ul

Enables or disables the underscore style.

Value	Description
EPOS2_TRUE	Enables the underscore style.
EPOS2_FALSE (default)	Disables the underscore style.
EPOS2_PARAM_UNSPECIFIED	Not specify.
EPOS2_PARAM_DEFAULT	Specifies the default value (underscore style disabled).

em

Enables or disables the bold style.

Value	Description
EPOS2_TRUE	Enables the bold style.
EPOS2_FALSE (default)	Disables the bold style.
EPOS2_PARAM_UNSPECIFIED	Not specify.
EPOS2_PARAM_DEFAULT	Specifies the default value (bold style disabled).

color

Specifies the color.

Value	Description
EPOS2_COLOR_NONE	No printing
EPOS2_COLOR_1 (default)	First color
EPOS2_COLOR_2	Second color
EPOS2_COLOR_3	Third color
EPOS2_COLOR_4	Fourth color
EPOS2_PARAM_UNSPECIFIED	Not specify.
EPOS2_PARAM_DEFAULT	Specifies the default value (first color).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

If all the parameters are set to "EPOS2_PARAM_UNSPECIFIED," EPOS2_ERR_PARAM will be returned.

addHPosition

Adds horizontal character print start position to the command buffer.

Syntax

```
- (int) addHPosition: (long) x;
```

Parameter

x

Specifies the horizontal print start position in dots.

Value	Description
Integer from 0 to 65535	Horizontal print start position (in dots)

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ Calling this API causes the printer positioned at "other than the beginning of the line." This is also true even if 0 is set to "x."
- ❑ After executing this API, [addTextAlign](#) and [addTextRotate](#) cannot be used.

addFeedUnit

Adds a paper-feed-by-dot command to the command buffer.

Syntax

- (int) addFeedUnit: (long) unit;

Parameter

unit

Specifies the paper feed amount (in dots).

Value	Description
Integer from 0 to 255	Paper feed amount (in dots)

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

Calling this API causes the printer positioned at "the beginning of the line."

addFeedLine

Adds a paper-feed-by-line command to the command buffer.

Syntax

```
- (int) addFeedLine: (long) line;
```

Parameter

line

Specifies the paper feed amount (in lines).

Value	Description
Integer from 0 to 255	Paper feed amount (in lines)

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

Calling this API causes the printer positioned at "the beginning of the line."

addImage

Adds a raster image print command to the command buffer.

Prints Ullimage class graphics.

A specified area of Ullimage class graphics is binarized according to the mode, halftone, and brightness parameters and converted into a raster image data.

The converted image is compressed or not compressed before transmission according to the compress parameter value.

One pixel of an image corresponds to one dot of the printer. When a transparent color is contained in the image, the background of the image is assumed to be white.

Syntax

```
- (int) addImage:(UIImage *)data x:(long)x y:(long)y
width:(long)width height:(long)height color:(int)color
mode:(int)mode halftone:(int)halftone
brightness:(double)brightness compress:(int)compress;
```

Parameter

data

Specifies an instance of the Ullimage class.

x

Specifies the horizontal start position of the print area (in pixels).

Value	Description
Integer from 0 to 65534	Horizontal start position of the print area (in pixels)

y

Specifies the vertical start position of the print area (in pixels).

Value	Description
Integer from 0 to 65534	Vertical start position of the print area (in pixels)

width

Specifies the width of the print area (in pixels).

Value	Description
Integer from 1 to 65535	Width of the print area (in pixels).

height

Specifies the height of the print area (in pixels).

Value	Description
Integer from 1 to 65535	Height of the print area (in pixels).

color

Specifies the color.

000 value to set	Description
EPOS2_COLOR_NONE	No printing
EPOS2_COLOR_1	First color
EPOS2_COLOR_2	Second color
EPOS2_COLOR_3	Third color
EPOS2_COLOR_4	Fourth color
EPOS2_PARAM_DEFAULT	Specifies the default value (first color).

mode

Specifies the color mode.

Value	Description
EPOS2_MODE_MONO	Monochrome (2 scales)
EPOS2_MODE_GRAY16	Multi-gradation (16 scales)
EPOS2_MODE_MONO_HIGH_DENSITY	Monochrome (2 scales), double density
EPOS2_PARAM_DEFAULT	Specifies the default (monochrome (2 scales)).

halftone

Specifies the halftone processing method.

Value	Description
EPOS2_HALFTONE_DITHER	Dithering (appropriate for printing graphics only)
EPOS2_HALFTONE_ERROR_DIFFUSION	Error diffusion (appropriate for printing text and graphics)
EPOS2_HALFTONE_THRESHOLD	Threshold (appropriate for printing text only)
EPOS2_PARAM_DEFAULT	Specifies the default (dithering).

Effective for the monochrome (2 scales) color mode only.

brightness

Specifies the brightness compensation value.

Value	Description
Real number from 0.1 to 10.0	Brightness compensation (gamma correction) value
EPOS2_PARAM_DEFAULT	Default (1.0)

When a value other than 1.0 is specified for the brightness compensation value, processing gets slower.

compress

Enables or disables compression.

Value	Description
EPOS2_COMPRESS_DEFLATE	Compresses the image.
EPOS2_COMPRESS_NONE	Does not compress the image.
EPOS2_COMPRESS_AUTO	Automatically chooses to or not to compress the image.
EPOS2_PARAM_DEFAULT	Default (automatically chooses to or not to compress the image internally)

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ If the area specified by x/y and width/height does not fit within the image size specified by data parameter, EPOS2_ERR_PARAM will be returned.
- ❑ Compress can only be specified with the *Bluetooth* model of the following printers. For other printers, specify EPOS2_COMPRESS_AUTO.

Model	Firmware version
TM-m10	No restriction
TM-m30	No restriction
TM-P20	No restriction
TM-P60II (Receipt)	5.14 ESC/POS or later
TM-P60II (Peeler)	6.14 ESC/POS or later
TM-P80	1.02 ESC/POS or later
TM-P80AC	2.01 ESC/POS or later
TM-T20II	No restriction
TM-T70II	No restriction
TM-T88V	No restriction
TM-T88VI	No restriction

- ❑ Printing may get slower if a transparent image is printed.
- ❑ The multi-gradation and the compression of image data are not supported in the page mode. If you set those in the page mode, nothing will be printed.
- ❑ Set an image size appropriate for the printer. If you set to print a large image, the API commands will be succeeded, but the printer may print nothing.

addLogo

Adds a NV logo print command to the command buffer.
Prints the logo registered in the NV memory of the printer.

Syntax

```
- (int) addLogo:(long)key1 key2:(long)key2;
```

Parameter

key1

Specifies the key code 1 of the NV logo.

Value	Description
Integer from 1 to 255	Key code 1 of the NV logo

key2

Specifies the key code 2 of the NV logo.

Value	Description
Integer from 1 to 255	Key code 2 of the NV logo

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ For how to register the NV logo, refer to the Technical Reference Guide of the printer.
- ❑ The page mode does not support multi-gradation printing. Multi-gradation graphics can be printed in the standard mode only.
- ❑ The NV logo specified by this API is printed with the color setting specified by [addTextStyle](#) in advance and stored in the buffer.

addBarcode

Adds a barcode print command to the command buffer.

Syntax

```
- (int) addBarcode:(NSString *)data type:(int)type
hri:(int)hri font:(int)font width:(long)width
height:(long)height;
```

Parameter

data

Specifies barcode data as a text string.

Specify a string in accordance with the standard of the barcode specified in type.

Type	Description
UPC-A	If an 11-digit figure is specified, the check digit is automatically appended. If a 12-digit figure is specified, the 12th digit is used as the check digit but verification is not performed.
UPC-E	Specify 0 in the first digit. Specify the manufacturer code in the 2nd to 6th digits. Specify the item code in right justification in the 7th to 11th digits. The number of digits of the item code depends on the manufacturer code. Specify 0 in each unused data. If an 11-digit figure is specified, the check digit is automatically appended. If a 12-digit figure is specified, the 12th digit is used as the check digit but verification is not performed.
EAN13	If an 12-digit figure is specified, the check digit is automatically appended.
JAN13	If a 13-digit figure is specified, the 13th digit is used as the check digit but verification is not performed.
EAN8	If an 7-digit figure is specified, the check digit is automatically appended. If an 8-digit figure is specified, the 8th digit is used as the check digit but verification is not performed.
JAN8	If the first character is * , this character is processed as the start character. If it is not , the start character is automatically added.
CODE39	If the first character is * , this character is processed as the start character. If it is not , the start character is automatically added.

Type	Description
ITF	The start and stop codes are automatically added. Addition and verification of the check digit are not performed.
CODABAR	Specify the start character ((A to D, a to d). Specify the stop character ((A to D, a to d). Addition and verification of the check digit are not performed.
CODE93	The start and stop characters are automatically added. The check digit is automatically calculated and added.
CODE128	Specify the start character (CODE A, CODE B, CODE C). The stop character is automatically added. The check digit is automatically calculated and added. To encode the following characters, specify the corresponding 2-digit code starting with {: FNC1: {1 FNC2: {2 FNC3: {3 FNC4: {4 CODE A: {A CODE B: {B CODE C: {C SHIFT: {S {: {{

Type	Description
GS1-128	<p>The start character, FNC1, check digit, and stop characters are automatically added. However, FNC1 used as a data separator is not added.</p> <p>To automatically calculate and add the application ID (AI) and the following check digit, specify "*" at the check digit position. The application ID (AI) can be put in parentheses.</p> <p>The parentheses are used as print characters for HRI and not encoded as data.</p> <p>A blank space can be inserted between the application ID (AI) and data.</p> <p>The blank space is used as print characters for HRI and not encoded as data.</p> <p>To encode the following characters, specify the corresponding 2-digit code starting with { :</p> <ul style="list-style-type: none"> FNC1: {1 FNC3: {3 {: {(): }} FNC1: {1 {: {{
GS1 DataBar Omnidirectional	Specify a 13-digit product ID (GTIN) excluding the application ID (AI) and check digit.
GS1 DataBar Truncated	
GS1 DataBar Limited	
GS1 DataBar Expanded	<p>The application ID (AI) can be put in parentheses.</p> <p>The parentheses are used as print characters for HRI and not encoded as data.</p> <p>To encode the following characters, specify the corresponding 2-digit code starting with { :</p> <ul style="list-style-type: none"> FNC1: {1 {: {(): }}

When specifying binary data which cannot be represented as a string, use the following escape sequences.

String	Description
\xnn	Control code
\\	Back slash

type

Specifies the barcode type.

Value	Description
EPOS2_BARCODE_UPC_A	UPC-A
EPOS2_BARCODE_UPC_E	UPC-E
EPOS2_BARCODE_EAN13	EAN13
EPOS2_BARCODE_JAN13	JAN13
EPOS2_BARCODE_EAN8	EAN8
EPOS2_BARCODE_JAN8	JAN8
EPOS2_BARCODE_CODE39	CODE39
EPOS2_BARCODE_ITF	ITF
EPOS2_BARCODE_CODABAR	CODABAR
EPOS2_BARCODE_CODE93	CODE93
EPOS2_BARCODE_CODE128	CODE128
EPOS2_BARCODE_GS1_128	GS1-128
EPOS2_BARCODE_GS1_DATABAR_OMNIDIRECTIONAL	GS1 DataBar Omnidirectional
EPOS2_BARCODE_GS1_DATABAR_TRUNCATED	GS1 DataBar Truncated
EPOS2_BARCODE_GS1_DATABAR_LIMITED	GS1 DataBar Limited
EPOS2_BARCODE_GS1_DATABAR_EXPANDED	GS1 DataBar Expanded

hri

Specifies the HRI position.

Value	Description
EPOS2_HRI_NONE (default)	No printing.
EPOS2_HRI ABOVE	Above the barcode
EPOS2_HRI BELOW	Below the barcode
EPOS2_HRI BOTH	Both above and below the barcode
EPOS2_PARAM_DEFAULT	Specifies the default value (no printing).
EPOS2_PARAM_UNSPECIFIED	Not specify.

font

Specifies the HRI font.

Value	Description
EPOS2_FONT_A (default)	Font A
EPOS2_FONT_B	Font B

Value	Description
EPOS2_FONT_C	Font C
EPOS2_FONT_D	Font D
EPOS2_FONT_E	Font E
EPOS2_PARAM_DEFAULT	Specifies the default value (font A).
EPOS2_PARAM_UNSPECIFIED	Not specify.

width

Specifies the width of a single module in dots.

Value	Description
Integer from 2 to 6	Width of a single module (in dots)
EPOS2_PARAM_UNSPECIFIED	Not specify.

height

Specifies the height of the barcode in dots.

Value	Description
Integer from 1 to 255	Height of the barcode (in dots)
EPOS2_PARAM_UNSPECIFIED	Not specify.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ Use this API at the "beginning of a line."
- ❑ When the barcode data specified in data does not conform to the barcode standard specified in type, an error will not be returned in the return value and the barcode will not be printed.

addSymbol

Adds a 2D symbol print command to the command buffer.

Syntax

```
- (int) addSymbol:(NSString *)data type:(int)type
level:(int)level width:(long)width height:(long)height
size:(long)size;
```

Parameter

data

Specifies 2D symbol data as a text string.

Specify a string in accordance with the standard of the 2D symbol specified in type.

Type	Description
Standard PDF417	Converts the string into UTF-8, processes the escape sequence(s), and encodes the data. The maximum number of code words in the data area is 928, the maximum number of code words in a single stage is 30, and the maximum number of stages is 90.
Truncated PDF417	Converts the string into JIS, processes the escape sequence(s), and encodes the data by choosing the data type from the following: Figure: 0 to 9 Alphanumeric: 0 to 9, A to Z, blank space, \$, %, *, +, -, ., /, : Kanji: Characters which can be represented with Shift JIS codes 8-bit byte data: 0x00 to 0xff
QR Code Model 1	Converts the string into JIS, processes the escape sequence(s), and encodes the data by choosing the data type from the following: Figure: 0 to 9 Alphanumeric: 0 to 9, A to Z, blank space, \$, %, *, +, -, ., /, : Kanji: Characters which can be represented with Shift JIS codes 8-bit byte data: 0x00 to 0xff
QR Code Model 2	Converts the string into JIS, processes the escape sequence(s), and encodes the data by choosing the data type from the following: Figure: 0 to 9 Alphanumeric: 0 to 9, A to Z, blank space, \$, %, *, +, -, ., /, : Kanji: Characters which can be represented with Shift JIS codes 8-bit byte data: 0x00 to 0xff
QR Code Micro	Converts the string into JIS, processes the escape sequence(s), and encodes the data by choosing the data type from the following: Figure: 0 to 9 Alphanumeric: 0 to 9, A to Z, blank space, \$, %, *, +, -, ., /, : Kanji: Characters which can be represented with Shift JIS codes 8-bit byte data: 0x00 to 0xff

Type	Description
MaxiCode Mode 2	Converts the string into UTF-8, processes the escape sequence(s), and encodes the data.
MaxiCode Mode 3	In Mode 2 or 3, if the first data is <code>)0>\x1e01\x1ddy</code> ("yy" is a 2-digit figure), this is processed as the message header and the second and succeeding data sequence is processed as the primary message.
MaxiCode Mode 4	
MaxiCode Mode 5	
MaxiCode Mode 6	<p>Otherwise, the primary message starts with the fist data.</p> <p>For the mode 2, specify the primary message in the following format:</p> <p>Zip code (1- to 9-digit figure) GS:(\x1d) ISO country code (1- to 3-digit figure) GS:(\x1d) Service class code (1- to 3-digit figure)</p> <p>For the mode 3, specify the primary message in the following format:</p> <p>Zip code (data which can be converted with 1 to 6 code sets A) GS (\x1d) ISO country code (1- to 3-digit figure) GS (\x1d) Service class code (1- to 3-digit figure)</p>
GS1 DataBar Stacked	Converts the string into UTF-8, processes the escape sequence(s), and encodes the data.
GS1 DataBar Stacked Omnidirectional	Specify a 13-digit product ID (GTIN) excluding the application ID (AI) and check digit.
GS1 DataBar Expanded Stacked	<p>Converts the string into UTF-8, processes the escape sequence(s), and encodes the data.</p> <p>The application ID (AI) can be put in parentheses.</p> <p>The parentheses are used as print characters for HRI and not encoded as data.</p> <p>To encode the following characters, specify the corresponding 2-digit code starting with { :</p> <ul style="list-style-type: none"> FNC1: {1 (: {{): }}{
Aztec Code	Converts the string into UTF-8, processes the escape sequence(s), and encodes the data.
DataMatrix	Converts the string into UTF-8, processes the escape sequence(s), and encodes the data.

When specifying binary data which cannot be represented as a string, use the following escape sequences.

String	Description
\xnn	Control code
\\	Back slash

type

Specifies the 2D symbol type.

Value	Description
EPOS2_SYMBOL_PDF417_STANDARD	Standard PDF417
EPOS2_SYMBOL_PDF417_TRUNCATED	Truncated PDF417
EPOS2_SYMBOL_QRCODE_MODEL_1	QR Code Model 1
EPOS2_SYMBOL_QRCODE_MODEL_2	QR Code Model 2
EPOS2_SYMBOL_QRCODE_MICRO	QR Code Micro
EPOS2_SYMBOL_MAXICODE_MODE_2	MaxiCode Mode 2
EPOS2_SYMBOL_MAXICODE_MODE_3	MaxiCode Mode 3
EPOS2_SYMBOL_MAXICODE_MODE_4	MaxiCode Mode 4
EPOS2_SYMBOL_MAXICODE_MODE_5	MaxiCode Mode 5
EPOS2_SYMBOL_MAXICODE_MODE_6	MaxiCode Mode 6
EPOS2_SYMBOL_GS1_DATABAR_STACKED	GS1 DataBar Stacked
EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL	GS1 DataBar Stacked Omnidirectional
EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED	GS1 DataBar Expanded Stacked
EPOS2_SYMBOL_AZTECCODE_FULLRANGE	Aztec Code Full-Range mode
EPOS2_SYMBOL_AZTECCODE_COMPACT	Aztec Code Compact mode
EPOS2_SYMBOL_DATAMATRIX_SQUARE	DataMatrix Square
EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_8	DataMatrix Rectangle, 8 lines
EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_12	DataMatrix Rectangle, 12 lines
EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_16	DataMatrix Rectangle, 16 lines

level

Specifies the error correction level.

Value	Description
EPOS2_LEVEL_0	PDF417 error correction level 0
EPOS2_LEVEL_1	PDF417 error correction level 1
EPOS2_LEVEL_2	PDF417 error correction level 2
EPOS2_LEVEL_3	PDF417 error correction level 3
EPOS2_LEVEL_4	PDF417 error correction level 4
EPOS2_LEVEL_5	PDF417 error correction level 5

Value	Description
EPOS2_LEVEL_6	PDF417 error correction level 6
EPOS2_LEVEL_7	PDF417 error correction level 7
EPOS2_LEVEL_8	PDF417 error correction level 8
EPOS2_LEVEL_L	QR Code error correction level L
EPOS2_LEVEL_M	QR Code error correction level M
EPOS2_LEVEL_Q	QR Code error correction level Q
EPOS2_LEVEL_H	QR Code error correction level H
Integer from 5 to 95	Aztec Code Error correction level (in percents)
EPOS2_PARAM_DEFAULT	PDF417: error correction level 1, QR Code: error correction level M, Aztec Code: error correction level 23
EPOS2_PARAM_UNSPECIFIED	Not specify.

Specify a value in accordance with the 2D symbol type.

Specify "EPOS2_PARAM_DEFAULT" for MaxiCode, 2D GS1 DataBar, and DataMatrix.

width

Specifies the module width.

An integer from 1 to 255 can be specified.

When "EPOS2_PARAM_UNSPECIFIED" is specified, the current setting is retained.

The range differs depending on the 2D symbol type.

2D symbol type	Valid value	Default value
PDF417	2 to 8	3
QR Code	3 to 16	3
MaxiCode	Ignored	
2D GS1 DataBar	2 to 8	2
Aztec Code	2 to 16	3
DataMatrix	2 to 16	3

height

Specifies the module height.

An integer from 1 to 255 can be specified.

When "EPOS2_PARAM_UNSPECIFIED" is specified, the current setting is retained.

The range differs depending on the 2D symbol type.

2D symbol type	Valid value	Default value
PDF417	2 to 8 (Scaling factor for width)	3

2D symbol type	Valid value	Default value
QR Code	Ignored	
MaxiCode		
2D GS1 DataBar		
Aztec Code		
DataMatrix		

QR Code, MaxiCode, 2D GS1 DataBar, Aztec Code, and DataMatrix are ignored.

size

Specifies the maximum size of the 2D symbol.

An integer from 0 to 65535 can be specified.

When "EPOS2_PARAM_UNSPECIFIED" is specified, the current setting is retained.

The range differs depending on the 2D symbol type.

2D symbol type	Default value	Description	
PDF417	0 (auto)	Specifies the number of code words per stage.	
QR Code	Ignored		
MaxiCode	Ignored		
2D GS1 DataBar	Expanded Stacked	0 (auto)	Specifies the maximum width of the 2D symbol (106 or more).
	Other	Ignored	
Aztec Code	Ignored		
DataMatrix	Ignored		

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ Use this API at the "beginning of a line."
- ❑ When the 2D symbol data specified in data does not conform to the 2D symbol type specified in type, an error will not be returned in the return value and the 2D symbol will not be printed.

addHLine

Adds a horizontal ruled line print command to the command buffer.

Draws a horizontal ruled line.

Syntax

```
- (int) addHLine:(long)x1 x2:(long)x2
lineStyle:(int)lineStyle;
```

Parameter

x1

Specifies the start position to draw a horizontal ruled line (in dots).

Value	Description
Integer from 0 to 65535	Start position to draw a horizontal ruled line (in dots)

x2

Specifies the end position to draw a horizontal ruled line (in dots).

Value	Description
Integer from 0 to 65535	End position to draw a horizontal ruled line (in dots)

lineStyle

Specifies the ruled line type.

Value	Description
EPOS2_LINE_THIN	Solid line: Thin
EPOS2_LINE_MEDIUM	Solid line: Medium
EPOS2_LINE_THICK	Solid line: Thick
EPOS2_LINE_THIN_DOUBLE	Double line: Thin
EPOS2_LINE_MEDIUM_DOUBLE	Double line: Medium
EPOS2_LINE_THICK_DOUBLE	Double line: Thick
EPOS2_PARAM_DEFAULT	Specifies the default (solid line: thin).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.

Error status	Description
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ This API cannot be used in the page mode.
- ❑ Use [addPageLine](#) to draw a horizontal ruled line in the page mode.

addVLineBegin

Adds a command to start drawing a vertical ruled line to the command buffer.
Starts drawing a vertical line.

Syntax

```
- (int) addVLineBegin:(long)x lineStyle:(int) lineStyle
lineId:(int *)lineId;
```

Parameter

x1

Specifies the start position to draw a vertical ruled line (in dots).

Value	Description
Integer from 0 to 65535	Start position to draw a vertical ruled line (in dots)

lineStyle

Specifies the ruled line type.

Value	Description
EPOS2_LINE_THIN	Solid line: Thin
EPOS2_LINE_MEDIUM	Solid line: Medium
EPOS2_LINE_THICK	Solid line: Thick
EPOS2_LINE_THIN_DOUBLE	Double line: Thin
EPOS2_LINE_MEDIUM_DOUBLE	Double line: Medium
EPOS2_LINE_THICK_DOUBLE	Double line: Thick
EPOS2_PARAM_DEFAULT	Specifies the default (solid line: thin).

lineId

Returns the ID of the ruled line printed by this API.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ This API cannot be used in the page mode.
- ❑ Use [addPageLine](#) to draw a vertical ruled line in the page mode.
- ❑ This API draws a vertical ruled line until stopped by [addVLineEnd](#).
- ❑ Use this API with the [addVLineEnd](#) API.

addVLineEnd

Adds a command to stop drawing a vertical ruled line to the command buffer.
Ends drawing a vertical line.

Syntax

```
- (int) addVLineEnd:(int)lineId;
```

Parameter

lineId

Specifies the line ID acquired by [addVLineBegin](#).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ This API cannot be used in the page mode.
- ❑ Use [addPageLine](#) to draw a vertical ruled line in the page mode.
- ❑ Drawing of the vertical ruled line continues until stopped by this API.
- ❑ Use this API with the [addVLineBegin](#) API.

addPageBegin

Adds a page mode start command to the command buffer.
Starts processing in the page mode.

Syntax

```
- (int) addPageBegin;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ The page mode does not support multi-gradation printing.
- ❑ Use this API with the [addPageEnd](#) API.

addPageEnd

Adds a page mode end command to the command buffer.
Ends processing in the page mode.

Syntax

```
- (int) addPageEnd;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ The page mode does not support multi-gradation printing.
- ❑ Use this API with the [addPageBegin](#) API.

addPageArea

Adds page mode print area setting to the command buffer.

Specifies the page mode print area (coordinates). Following this API, call an [addText](#) API to specify print data such as the API.

Syntax

```
- (int) addPageArea:(long)x y:(long)y width:(long)width
height:(long)height;
```

Parameter

x

Specifies the horizontal origin (in dots).

Value	Description
Integer from 0 to 65535	Horizontal origin (in dots)

"0" specifies the leftmost position of the printable area of the printer.

y

Specifies the vertical origin (in dots).

Value	Description
Integer from 0 to 65535	Vertical origin (in dots)

"0" specifies the position where paper is not fed.

width

Specifies the width of a print area (in dots).

Value	Description
Integer from 1 to 65535	Width of a print area (in dots)

height

Specifies the height of a print area (in dots).

Value	Description
Integer from 1 to 65535	Height of a print area (in dots)

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.

Error status	Description
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ Define the print area in accordance with the contents to print. If the print data does not fit within the print area, the printed contents will be truncated.
- ❑ Use this API between the [addPageBegin](#) and [addPageEnd](#) APIs.
- ❑ Specify the width and height of the print area in accordance with the print direction setting. Otherwise the print data may be truncated. The print direction is specified by [addPageDirection](#).
- ❑ This API does not work in the standard mode.

addPageDirection

Adds page mode print direction setting to the command buffer.

Specifies the print direction in the page mode.

Syntax

```
- (int) addPageDirection:(int) direction;
```

Parameter

direction

Specifies the print direction in the page mode.

Value	Description
EPOS2_DIRECTION_LEFT_TO_RIGHT (default)	Do not rotate data. (Data is printed rightward from the upper-left position.)
EPOS2_DIRECTION_BOTTOM_TO_TOP	Rotate data counterclockwise by 90 degrees. (Data is printed upward from the lower-left position.)
EPOS2_DIRECTION_RIGHT_TO_LEFT	Rotate data by 180 degrees. (Data is printed leftward from the lower-right position.)
EPOS2_DIRECTION_TOP_TO_BOTTOM	Rotate data clockwise by 90 degrees. (Data is printed downward from the upper-right position.)
EPOS2_PARAM_DEFAULT	Specifies the default value (no rotation).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ This API does not work in the standard mode.
- ❑ Use this API between the [addPageBegin](#) and [addPageEnd](#) APIs.

addPagePosition

Adds print position setting within the print area in the page mode to the command buffer.
Specifies the print start position (coordinates) within the area specified by the [addPageArea](#) API.

Syntax

```
- (int) addPagePosition:(long)x y:(long)y;
```

Parameter

x

Specifies the horizontal print position (in dots).

Value	Description
Integer from 0 to 65535	Horizontal print position (in dots)
EPOS2_PARAM_UNSPECIFIED	Not specify.

y

Specifies the vertical print position (in dots).

Value	Description
Integer from 0 to 65535	Vertical print position (in dots)
EPOS2_PARAM_UNSPECIFIED	Not specify.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ This API does not work in the standard mode.
- ❑ Use this API between the [addPageBegin](#) and [addPageEnd](#) APIs.
- ❑ Specify the print start position (coordinates) in accordance with the contents to print. See below.

Print data	Specification method
When printing a text string	<p>Specify the leftmost position of the baseline for the first character.</p> <p>This can be omitted when printing data with the standard size in left justification. When printing a double-height character, set y to 42 or larger.</p>
When printing a barcode	<p>Specify the lower-left position of the symbol.</p> <p>Specify the height of the barcode in y.</p>
When printing graphics/logo	<p>Specify the lower-left position of the graphic data.</p> <p>Specify the height of the graphic data in y.</p>
When printing a 2D symbol	<p>Specify the upper-left position of the symbol.</p> <p>This can be omitted when printing from the upper-left position.</p>

□ If all the parameters are set to "EPOS2_PARAM_UNSPECIFIED," EPOS2_ERR_PARAM will be returned.

addPageLine

Adds a page mode line draw command to the command buffer.

Draws a line in the page mode.

Syntax

```
- (int) addPageLine:(long)x1 y1:(long)y1 x2:(long)x2
y2:(long)y2 lineStyle:(int) lineStyle;
```

Parameter

x1

Specifies the horizontal position to start drawing (in dots).

Value	Description
Integer from 0 to 65535	Horizontal position to start drawing (in dots)

y1

Specifies the vertical position to start drawing (in dots).

Value	Description
Integer from 0 to 65535	Vertical position to start drawing (in dots)

x2

Specifies the horizontal position to end drawing (in dots).

Value	Description
Integer from 0 to 65535	Horizontal position to end drawing (in dots)

y2

Specifies the vertical position to end drawing (in dots).

Value	Description
Integer from 0 to 65535	Vertical position to end drawing (in dots)

lineStyle

Specifies the ruled line type.

Value	Description
EPOS2_LINE_THIN	Solid line: Thin
EPOS2_LINE_MEDIUM	Solid line: Medium
EPOS2_LINE_THICK	Solid line: Thick
EPOS2_LINE_THIN_DOUBLE	Double line: Thin
EPOS2_LINE_MEDIUM_DOUBLE	Double line: Medium
EPOS2_LINE_THICK_DOUBLE	Double line: Thick

Value	Description
EPOS2_PARAM_DEFAULT	Specifies the default (solid line: thin).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ This API does not work in the standard mode.
- ❑ A diagonal line cannot be drawn.
- ❑ Use this API between the [addPageBegin](#) and [addPageEnd](#) APIs.

addPageRectangle

Adds a page mode rectangle draw command to the command buffer.

Draws a rectangle in the page mode.

Syntax

```
- (int) addPageRectangle:(long)x1 y1:(long)y1
x2:(long)x2 y2:(long)y2 lineStyle:(int) lineStyle;
```

Parameter

x1

Specifies the horizontal position to start drawing (in dots).

Value	Description
Integer from 0 to 65535	Horizontal position to start drawing (in dots)

y1

Specifies the vertical position to start drawing (in dots).

Value	Description
Integer from 0 to 65535	Vertical position to start drawing (in dots)

x2

Specifies the horizontal position to end drawing (in dots).

Value	Description
Integer from 0 to 65535	Horizontal position to end drawing (in dots)

y2

Specifies the vertical position to end drawing (in dots).

Value	Description
Integer from 0 to 65535	Vertical position to end drawing (in dots)

Style

Specifies the ruled line type.

Value	Description
EPOS2_LINE_THIN	Solid line: Thin
EPOS2_LINE_MEDIUM	Solid line: Medium
EPOS2_LINE_THICK	Solid line: Thick
EPOS2_LINE_THIN_DOUBLE	Double line: Thin
EPOS2_LINE_MEDIUM_DOUBLE	Double line: Medium
EPOS2_LINE_THICK_DOUBLE	Double line: Thick

Value	Description
EPOS2_PARAM_DEFAULT	Specifies the default (solid line: thin).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ This API does not work in the standard mode.
- ❑ Use this API between the [addPageBegin](#) and [addPageEnd](#) APIs.

addCut

Adds a sheet cut command to the command buffer.
Sets how to cut paper.

Syntax

```
- (int) addCut:(int)type;
```

Parameter

type

Specifies how to cut paper.

Value	Description
EPOS2_CUT_FEED	Feed cut (cut the sheet after feeding paper).
EPOS2_CUT_NO_FEED	Cut without feed (cut the sheet without feeding paper).
EPOS2_CUT_RESERVE	Cut reservation (print the following texts and cut the sheet at the cutting position).
EPOS2_PARAM_DEFAULT	Specifies the default (feed cut (cut the sheet after feeding paper)).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

This API cannot be used in the page mode.

addPulse

Adds a drawer kick command to the command buffer.

Sets the drawer kick.

Syntax

```
- (int) addPulse:(int)drawer time:(int)time;
```

Parameter

drawer

Specifies the drawer kick connector.

Value	Description
EPOS2_DRAWER_2PIN	Drawer kick connector pin No.2
EPOS2_DRAWER_5PIN	Drawer kick connector pin No.5
EPOS2_PARAM_DEFAULT	Specifies the default (drawer kick connector pin No.2).

time

Specifies the on time of the drawer kick signal.

Value	Description
EPOS2_PULSE_100	100-msec signal
EPOS2_PULSE_200	200-msec signal
EPOS2_PULSE_300	300-msec signal
EPOS2_PULSE_400	400-msec signal
EPOS2_PULSE_500	500-msec signal
EPOS2_PARAM_DEFAULT	Specifies the default (100-msec signal).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- This API cannot be used in the page mode.
- The drawer and optional external buzzer cannot be connected simultaneously.

addSound

Adds buzzer sound setting to the command buffer.

Sets the buzzer.

Syntax

```
- (int) addSound:(int)pattern repeat:(long)repeat
cycle:(long)cycle;
```

Parameter

pattern

Specifies the buzzer tone.

Value	Description
EPOS2_PATTERN_NONE	Stop (TM-P series)
EPOS2_PATTERN_NONE	Stop. However, the buzzer already sounding does not stop. (Except for TM-P series)
EPOS2_PATTERN_A	Pattern A (optional external buzzer)
EPOS2_PATTERN_B	Pattern B (optional external buzzer)
EPOS2_PATTERN_C	Pattern C (optional external buzzer)
EPOS2_PATTERN_D	Pattern D (optional external buzzer)
EPOS2_PATTERN_E	Pattern E (optional external buzzer)
EPOS2_PATTERN_ERROR	Error sound pattern (optional external buzzer)
EPOS2_PATTERN_PAPER_EMPTY	Paper empty sound pattern (optional external buzzer)
EPOS2_PATTERN_1	Pattern 1 (built-in buzzer)
EPOS2_PATTERN_2	Pattern 2 (built-in buzzer)
EPOS2_PATTERN_3	Pattern 3 (built-in buzzer)
EPOS2_PATTERN_4	Pattern 4 (built-in buzzer)
EPOS2_PATTERN_5	Pattern 5 (built-in buzzer)
EPOS2_PATTERN_6	Pattern 6 (built-in buzzer)
EPOS2_PATTERN_7	Pattern 7 (built-in buzzer)
EPOS2_PATTERN_8	Pattern 8 (built-in buzzer)
EPOS2_PATTERN_9	Pattern 9 (built-in buzzer)
EPOS2_PATTERN_10	Pattern 10 (built-in buzzer)
EPOS2_PARAM_DEFAULT	Specifies the default (Pattern A).

repeat

Specifies the repeat count.

Value	Description
0	Unlimited
1 to 255	1 to 255 times
EPOS2_PARAM_DEFAULT	Specifies the default (once).

cycle

Specifies the buzzer sound interval (in milliseconds).

Value	Description
1000 to 25500	1000 to 25500 milliseconds
EPOS2_PARAM_DEFAULT	Specifies the default (1000 milliseconds).

Effective for Patterns 1 to 10 only.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ This API cannot be used in the page mode.
- ❑ The drawer and optional external buzzer cannot be connected simultaneously.
- ❑ This API cannot be used if the printer is not equipped with a buzzer.
- ❑ The timing to receive the callback of sendData API varies by printer.
TM-P series: sendData After running API
Other than TM-P series: After buzzer stops sounding

addFeedPosition

Adds a label sheet/black mark sheet feed command to the command buffer.

Syntax

```
- (int) addFeedPosition: (int)position;
```

Parameter

position

Specifies the paper feed position.

Value	Description
EPOS2_FEED_PEELING	Feed the sheet to the peeling position.
EPOS2_FEED_CUTTING	Feed the sheet to the cut position.
EPOS2_FEED_CURRENT_TOF	Feed the sheet to the top of the current label.
EPOS2_FEED_NEXT_TOF	Feed the sheet to the top of the next label.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ The label sheet/black mark sheet can be controlled in the standard mode.
- ❑ This API cannot be used in the page mode.

addLayout

Adds layout setting of the label sheet/black mark sheet to the command buffer.

Syntax

```
- (int) addLayout:(int)type width:(long)width
height:(long)height marginTop:(long)marginTop
marginBottom:(long)marginBottom
offsetCut:(long)offsetCut
offsetLabel:(long)offsetLabel;
```

Parameter

type

Specifies the paper type.

Value	Description
EPOS2_LAYOUT_RECEIPT	Receipt (without black mark)
EPOS2_LAYOUT_RECEIPT_BM	Receipt (with black mark)
EPOS2_LAYOUT_LABEL	Label sheet (without black mark)
EPOS2_LAYOUT_LABEL_BM	Label sheet (with black mark)

width

Specifies the paper width (in 0.1mm units).

Value	Description
Integer from 290 to 800	Paper width (in 0.1mm units)

height

Specifies the distance from the print reference mark to the next print reference mark (in 0.1mm units).

Paper type	Value	Description
Receipt (without black mark)	0	No distance specified (auto)
Receipt (with black mark)		Distance between the top edges of two consecutive black marks.
Label sheet (without black mark)	0 (auto) 284 to 1550	Distance between the top edges of two consecutive labels
Label sheet (with black mark)		Distance between the bottom edges of two consecutive black marks.

marginTop

Specifies the distance from the print reference mark to the top of the sheet (in 0.1mm units).

Paper type	Value	Description
Receipt (without black mark)	0	No distance specified (auto)
Receipt (with black mark)	-150 to 1500	Distance between the top edges of two consecutive black marks.
Label sheet (without black mark)	0 to 1500	Distance between the top edges of two consecutive labels
Label sheet (with black mark)	-15 to 1500	Distance between the bottom edges of two consecutive black marks.

marginBottom

Specifies the distance from the eject reference mark to the bottom edge of the printable area (in 0.1mm units).

Paper type	Value	Description
Receipt (without black mark)	0	No distance specified (auto)
Receipt (with black mark)	0	No distance specified (auto)
Label sheet (without black mark)	-15 to 0	Distance from the bottom edge of the label (A positive value represents the paper feed direction.)
Label sheet (with black mark)	-15 to 15	Distance from the top of the black mark (A positive value represents the paper feed direction.)

offsetCut

Specifies the distance from the eject reference mark to the cut position (in 0.1mm units).

Paper type	Value	Description
Receipt (without black mark)	0	No distance specified (auto)
Receipt (with black mark)	-290 to 50	Distance from the top edge of the black mark to the cut position
Label sheet (without black mark)	0 to 50	Distance from the bottom edge of the label to the cut position
Label sheet (with black mark)	0 to 50	Distance from the top edge of the black mark to the cut position

offsetLabel

Specifies the distance from the eject reference mark to the bottom edge of the label (in 0.1mm units).

Paper type	Value	Description
Receipt (without black mark)	0	No distance specified (auto)
Receipt (with black mark)	0	No distance specified (auto)
Label sheet (without black mark)	0	No distance specified (auto)
Label sheet (with black mark)	0 to 15	Distance from the top edge of the black mark to the bottom edge of a label

Return value

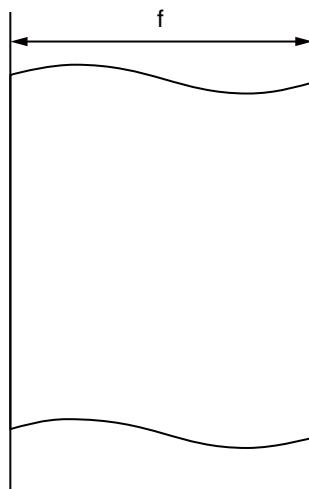
Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

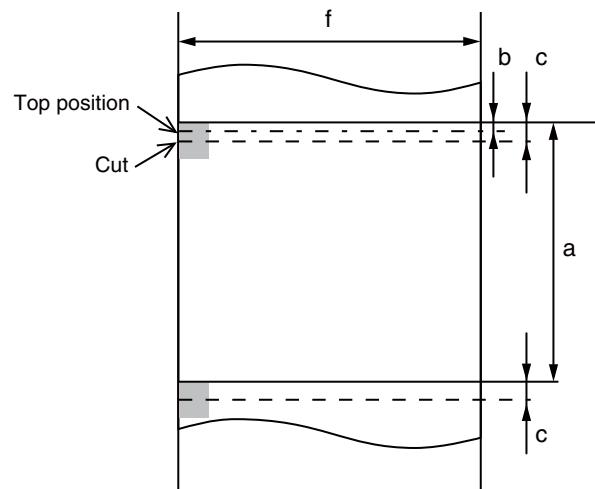
- ❑ This API does not work in the page mode.
- ❑ The available parameter values for each type of paper are listed below.

Parameter	Receipt (without black mark)	Label sheet (without black mark)	Label sheet (with black mark)	Receipt (with black mark)	Symbol in diagram
width	290 to 800				f
height	0	0, 284 to 1550			
marginTop	0	-150 to 1500	0 to 1500	-15 to 1500	b
marginBottom	0	0	-15 to 0	-15 to 15	e
offsetCut	0	-290 to 50	0 to 50	0 to 50	c
offsetLabel	0	0	0	0 to 15	d

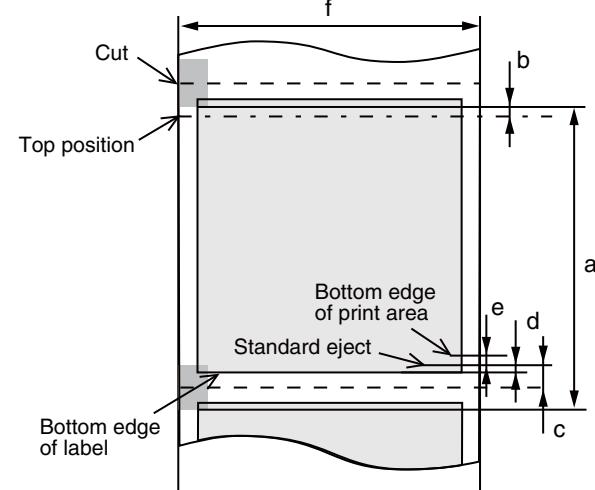
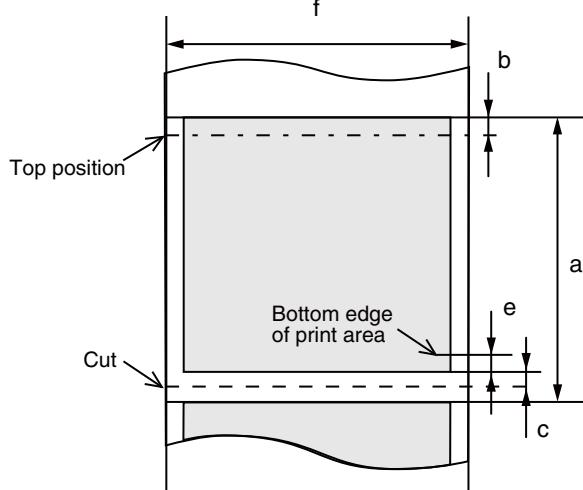
Receipt



<with Black Mark>



Label



addCommand

Adds a command to the command buffer.
Sends the ESC/POS command.

Syntax

```
- (int) addCommand: (NSData *)data;
```

Parameter

data

Specifies the ESC/POS command.
Specifies the binary data.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

Refer to the following URL for details of the ESC/POS command.

https://reference.epson-biz.com/modules/ref_escpos/index.php?content_id=2

forceRecover

Forcibly sends the error recovery command.

The return value of this API is the result of sending data to the devices.

The processing result of the devices using this API is returned to the callback method set by the [setReceiveEventDelegate](#) API of the Epos2Printer class.

Syntax

```
- (int) forceRecover: (long) timeout;
```

Parameter

timeout

Specifies the timeout period before completion of command transmission in milliseconds.

Value	Description
Integer from 0 to 600000	Timeout period (in milliseconds)
EPOS2_PARAM_DEFAULT	Specifies the default value (10000).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started.

Supplementary explanation

After recovering from a recoverable error, the buffer of the printer is reset.

forcePulse

Forcibly sends the drawer kick command.

The return value of this API is the result of sending data to the devices.

The processing result of the devices using this API is returned to the callback method set by the [setReceiveEventDelegate](#) API of the Epos2Printer class.

Syntax

```
- (int) forcePulse:(int)drawer pulseTime:(int)pulseTime
timeout:(long)timeout;
```

Parameter

drawer

Specifies the drawer kick connector.

Value	Description
EPOS2_DRAWER_2PIN	Drawer kick connector pin No.2
EPOS2_DRAWER_5PIN	Drawer kick connector pin No.5
EPOS2_PARAM_DEFAULT	Specifies the default (drawer kick connector pin No.2).

time

Specifies the on time of the drawer kick signal.

Value	Description
EPOS2_PULSE_100	100-msec signal
EPOS2_PULSE_200	200-msec signal
EPOS2_PULSE_300	300-msec signal
EPOS2_PULSE_400	400-msec signal
EPOS2_PULSE_500	500-msec signal
EPOS2_PARAM_DEFAULT	Specifies the default (100-msec signal).

timeout

Specifies the timeout period before completion of command transmission in milliseconds.

Value	Description
Integer from 0 to 600000	Timeout period (in milliseconds)
EPOS2_PARAM_DEFAULT	Specifies the default value (10000).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started.

Supplementary explanation

The drawer and optional external buzzer cannot be connected simultaneously.

forceStopSound

Forcibly sends the buzzer sound command.

The return value of this API is the result of sending data to the devices.

The processing result of the devices using this API is returned to the callback method set by the [setReceiveEventDelegate](#) API of the Epos2Printer class.

Syntax

```
- (int) forceStopSound: (long)timeout;
```

Parameter

timeout

Specifies the timeout period before completion of command transmission in milliseconds.

Value	Description
Integer from 0 to 600000	Timeout period (in milliseconds)
EPOS2_PARAM_DEFAULT	Specifies the default value (10000).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started.

Supplementary explanation

- ❑ The drawer and optional external buzzer cannot be connected simultaneously.
- ❑ This API cannot be used if the printer is not equipped with a buzzer.

forceCommand

Forcibly sends the ESC/POS command.

The return value of this API is the result of sending data to the devices.

The processing result of the devices using this API is returned to the callback method set by the [setReceiveEventDelegate](#) API of the Epos2Printer class.

Syntax

```
- (int) forceCommand: (NSData *) data
    timeout: (long) timeout;
```

Parameter

data

Forcibly sends the ESC/POS command.

Specifies the binary data.

timeout

Specifies the timeout period before completion of command transmission in milliseconds.

Value	Description
Integer from 0 to 600000	Timeout period (in milliseconds)
EPOS2_PARAM_DEFAULT	Specifies the default value (10000).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started.

forceReset

Forcibly sends the printer reset command.

The return value of this API is the result of sending data to the devices.

The processing result of the devices using this API is returned to the callback method set by the [setReceiveEventDelegate](#) API of the Epos2Printer class.

Syntax

```
- (int) forceReset:(long)timeout;
```

Parameter

timeout

Specifies the timeout period before completion of command transmission in milliseconds.

Value	Description
Integer from 0 to 600000	Timeout period (in milliseconds)
EPOS2_PARAM_DEFAULT	Specifies the default value (10000).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started.

setStatusChangeEventDelegate

Registers a callback method for a status change event.

Syntax

```
- (void) setStatusChangeEventDelegate:  
    (id<Epos2PtrStatusChangeDelegate>) delegate;
```

Parameter

delegate

Specifies an object conforming to the Epos2PtrStatusChangeDelegate protocol.

Protocol declaration

```
@protocol Epos2PtrStatusChangeDelegate <NSObject>  
@required  
- (void) onPtrStatusChange: (Epos2Printer *) EPOS2_Obj  
eventType: (int) eventType;  
@end
```

Parameter

printerObj

The callback source object is stored.

eventType

The type of the event that occurred is stored.

Event type	Description
EPOS2_EVENT_ONLINE	Online
EPOS2_EVENT_OFFLINE	Offline
EPOS2_EVENT_POWER_OFF	Power off
EPOS2_EVENT_COVER_CLOSE	Cover close
EPOS2_EVENT_COVER_OPEN	Cover open
EPOS2_EVENT_PAPER_OK	Paper remains.
EPOS2_EVENT_PAPER_NEAR_END	Paper has almost run out.
EPOS2_EVENT_PAPER_EMPTY	Paper has run out.
EPOS2_EVENT_DRAWER_HIGH	Drawer kick connector pin No.3 status = "H"
EPOS2_EVENT_DRAWER_LOW	Drawer kick connector pin No.3 status = "L"
EPOS2_EVENT_BATTERY_ENOUGH	Battery is enough.
EPOS2_EVENT_BATTERY_EMPTY	Battery has run out.

Supplementary explanation

- ❑ When this API is run multiple times, the callback method specified later takes effect.
- ❑ If nil is specified in delegate when calling this API, the registered callback method is canceled.

setReceiveEventDelegate

Registers a callback method for a response document reception event.

Syntax

```
- (void)
setReceiveEventDelegate: (id<Epos2PtrReceiveDelegate>) delegate;
```

Parameter

delegate

Specifies an object conforming to the Epos2PtrReceiveDelegate protocol.

Protocol declaration

```
@protocol Epos2PtrReceiveDelegate <NSObject>
@required
- (void) onPtrReceive: (Epos2Printer *) printerObj
code: (int) code status: (Epos2PrinterStatusInfo *) status
printJobId: (NSString *) printJobId;
@end
```

Parameter

printerObj

The callback source object is stored.

code

The processing result is stored.

Error status	Description
EPOS2_CODE_SUCCESS	Print succeeded.
EPOS2_CODE_PRINTING	Printing
EPOS2_CODE_ERR_AUTORECOVER	Automatic recovery error occurred.
EPOS2_CODE_ERR_COVER_OPEN	Cover open error occurred.
EPOS2_CODE_ERR_CUTTER	Auto cutter error occurred.
EPOS2_CODE_ERR_MECHANICAL	Mechanical error occurred.
EPOS2_CODE_ERR_EMPTY	No paper is left in the roll paper end detector.
EPOS2_CODE_ERR_UNRECOVERABLE	Unrecoverable error occurred.
EPOS2_CODE_ERR_FAILURE	Error exists in the requested document syntax.
EPOS2_CODE_ERR_NOT_FOUND	Printer specified by the device ID does not exist.
EPOS2_CODE_ERR_SYSTEM	Error occurred with the printing system.

Error status	Description
EPOS2_CODE_ERR_PORT	Error was detected with the communication port.
EPOS2_CODE_ERR_TIMEOUT	Print timeout occurred.
EPOS2_CODE_ERR_JOB_NOT_FOUND	Specified print job ID does not exist.
EPOS2_CODE_ERR_SPOOLER	Print queue is full.
EPOS2_CODE_ERR_BATTERY_LOW	Battery has run out.

status

Status at the timing when the process was run is stored as the `PrinterStatusInfo` type.

printJobId

- ❑ When the spooler function has been enabled, a print job ID is stored.
- ❑ When the spooler function is disabled, nil is stored.

Supplementary explanation

- ❑ When this API is run multiple times, the callback method specified later takes effect.
- ❑ If nil is specified in delegate when calling this API, the registered callback method is canceled.

interval

Specifies the interval to update the printer status.

Syntax

Setter

```
- (int) setInterval:(long) interval
```

Getter

```
- (long) getInterval
```

Value

Specifies the interval to update the printer status (in milliseconds). The default value is 3,000.

Value	Description
Integer from 1000 to 60000	Interval to update the printer status (in milliseconds).
EPOS2_PARAM_DEFAULT	Specifies the default value (3,000).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.

Epos2LineDisplay Class

initWithDisplaySeries

Initializes the Epos2LineDisplay class.

Syntax

```
- (id) initWithDisplaySeries:(int) displaySeries;
```

Parameter

displaySeries

Specifies the model name of the target customer display.

Value	Description
EPOS2_DM_D110	DM-D110
EPOS2_DM_D30	DM-D30

Return value

If the process succeeds, an initialized Epos2LineDisplay class instance will be returned.

If the process fails, nil will be returned. The process may fail due to the following reasons:

Error status	Description
EPOS2_ERR_PARAM	An invalid parameter was specified.
EPOS2_ERR_MEMORY	Memory could not be allocated.

connect

Starts communication with the customer display.

Syntax

```
- (int) connect:(NSString *)target  
timeout:(long)timeout;
```

Parameter

target

Specifies the connection type and connection target.

Use the following syntax:

<connection type>:<identifier>(<device ID>)

Device	Connection type	Identifier	Description
Wi-Fi/Ethernet device	"TCP"	<ul style="list-style-type: none"> IP address in IPv4 format MAC address Host name 	"TCP:192.168.192.168(local_display)"
Bluetooth device	"BT"	MAC address	"BT:00:22:15:7D:70:9C"

timeout

Specifies the maximum time (in milliseconds) to wait for communication with the printer to be established.

Value	Description
Integer from 1000 to 300000	Maximum wait time before an error is returned (in milliseconds).
EPOS2_PARAM_DEFAULT	Specifies the default value (15000).

Return value

The result of the API is returned.

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_CONNECT	Failed to open the device.
EPOS2_ERR_TIMEOUT	Failed to communicate with the devices within the specified time. The printer is offline.
EPOS2_ERR_ILLEGAL	Tried to start communication with a printer with which communication had been already established.

Error status	Description
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_NOT_FOUND	The device could not be found.
EPOS2_ERR_IN_USE	The device was in use.
EPOS2_ERR_TYPE_INVALID	The device type is different.

Supplementary explanation

- ❑ Devices other than printers are exclusively locked.
- ❑ The device ID is an arbitrary string that is set when the printer and POS peripheral devices are registered to the TM intelligent printer. For details, refer to the Technical Reference Guide of the printer.
- ❑ For the TM intelligent printer, this API always succeeds without regard to the connection status between the printer and a peripheral device.

disconnect

Ends communication with the customer display.

Syntax

```
- (int) disconnect;
```

Return value

The result of the API is returned.

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_ILLEGAL	Tried to end communication where it had not been established.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_DISCONNECT	Failed to disconnect the device.

getStatus

Acquires the current status information.

Syntax

```
- (DisplayStatusInfo *) getStatus;
```

Return value

The current status is returned in the DisplayStatusInfo type.

The following status information is stored in the object as a property.

Printer status	Status	Description
connection:	EPOS2_TRUE	Connected
Connection status	EPOS2_FALSE	Disconnected

Supplementary explanation

- ❑ The status object is set to the status at the timing of execution of this API and will not be updated.
- ❑ If this function is executed within a callback function, nil will be returned.
- ❑ If "FALSE" is returned when connecting a DM-D30, the TM printer is not connected to the terminal.

sendData

Sends the command buffer.

The return value of this API is the result of sending data to the devices.

The processing result of the devices using this API is returned to the callback method set by the [setReceiveEventDelegateAPI](#) of the Epos2LineDisplay class.

This API sends data buffered by an add-type API (e.g., [addText](#)).

Syntax

- (int) sendData;

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_ILLEGAL	The control commands have not been buffered. This API was called while no communication had been started.

clearCommandBuffer

Clears the command buffer.

Syntax

```
- (int) clearCommandBuffer;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.

addInitialize

Initializes the customer display. Initialization changes the customer display status as follows.

- ❑ All the displayed characters are erased and all the windows are destroyed.
- ❑ Cursor settings are initialized to the default and the cursor position is returned to the origin of the customer display.
- ❑ The display blinking and brightness settings are initialized to the default.

Syntax

- (int) addInitialize;

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addCreateWindow

Adds window configuration to the command buffer.

Syntax

```
- (int) addCreateWindow: (long) number x: (long) x y: (long) y
width: (long) width height: (long) height scrollMode: (int)
scrollMode;
```

Parameter

number

Specifies the window number.

Value	Description
Integer from 1 to 4	Window number

x

Specifies the x coordinate of the window origin on the customer display.

Value	Description
Integer from 1 to 20	X coordinate on the customer display

y

Specifies the y coordinate of the window origin on the customer display.

Value	Description
Integer from 1 to 2	Y coordinate on the customer display

width

Specifies the window width.

Value	Description
Integer from 1 to 20	Window width

height

Specifies the window height.

Value	Description
Integer from 1 to 2	Window height

scrollMode

Specifies the window scroll mode.

Value	Description
EPOS2_SCROLL_OVERWRITE	When the current display position is at the rightmost position of the upper line, displaying a new character moves the display position to the leftmost position of the lower line. When the current display position is at the rightmost position of the lower line, displaying a new character moves the display position to the leftmost position of the upper line.
EPOS2_SCROLL_VERTICAL	When the current display position is at the rightmost position of the upper line, displaying a new character moves the display position to the leftmost position of the lower line. When the current display position is at the rightmost position of the lower line, displaying a new character scrolls up the characters on the lower line and clears the lower line.
EPOS2_SCROLL_HORIZONTAL	When the current display position is at the rightmost position, displaying a new character scrolls all the characters already displayed on the cursor line to the left by one character and the new character is displayed at the rightmost position.
EPOS2_PARAM_DEFAULT	Specifies the default value (Overwrite).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

To add a window, be careful so that the existing window(s) should not be overlapped by the new window on the customer display.

addDestroyWindow

Adds a command to destroy the defined window to the command buffer.

Syntax

```
- (int) addDestroyWindow: (long) number;
```

Parameter

number

Specifies the number of the window to destroy.

Value	Description
Integer from 1 to 4	Number of the window to destroy

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addSetCurrentWindow

Adds a command to move to another window to the command buffer.
A specified window is displayed and the cursor is moved to the origin of the new window.

Syntax

- (int) addSetCurrentWindow: (long) number;

Parameter

number

Specifies a window number of a destination window.

Value	Description
Integer from 1 to 4	Window number of a destination window

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addClearCurrentWindow

Adds a window clear command for the current window to the command buffer.

Syntax

```
- (int) addClearCurrentWindow;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addSetCursorPosition

Adds cursor position setting to the command buffer.

Syntax

```
- (int) addSetCursorPosition: (long) x y: (long) y;
```

Parameter

x

Specifies the destination x coordinate.

Value	Description
Integer from 1 to 20	Destination x coordinate

y

Specifies the destination y coordinate.

Value	Description
Integer from 1 to 2	Destination y coordinate

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

Use [addMoveCursorPosition](#) to move within a window.

addMoveCursorPosition

Adds cursor position setting within the current window to the command buffer.

Syntax

```
- (int) addMoveCursorPosition: (int) position;
```

Parameter

position

Specifies the new cursor position within the current window.

Value	Description
EPOS2_MOVE_TOP_LEFT	Sets the new position to the top left edge.
EPOS2_MOVE_TOP_RIGHT	Sets the new position to the top right edge.
EPOS2_MOVE_BOTTOM_LEFT	Sets the new position to the bottom left edge.
EPOS2_MOVE_BOTTOM_RIGHT	Sets the new position to the bottom right edge.
EPOS2_PARAM_DEFAULT	Specifies the default value (top left edge).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addSetCursorType

Adds cursor display setting to the command buffer.

Syntax

```
- (int) addSetCursorType:(int) type;
```

Parameter

type

Specifies the cursor display method.

Value	Description
EPOS2_CURSOR_NONE	No cursor display
EPOS2_CURSOR_UNDERLINE	Underscore
EPOS2_PARAM_DEFAULT	Specifies the default value (no cursor display).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addText

Adds string display setting to the command buffer.

Syntax

- ❑ (int) addText:(NSString *)data;
- ❑ (int) addText:(NSString *)data lang:(int)lang;
- ❑ (int) addText:(NSString *)data x:(long)x y:(long)y;
- ❑ (int) addText:(NSString *)data x:(long)x y:(long)y lang:(int)lang;

Parameter

data

Specifies the string to display.

lang

Specifies the language to display the string.

Value	Description
EPOS2_LANG_EN (default)	English
EPOS2_LANG_JA	Japanese
EPOS2_PARAM_DEFAULT	Specifies the default value (English).

x

Specifies the x coordinate of the display position.

Value	Description
Integer from 1 to 20	X coordinate of the display position

y

Specifies the y coordinate of the display position.

Value	Description
Integer from 1 to 2	Y coordinate of the display position

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.

Error status	Description
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ If the coordinates of the display position are omitted, the coordinates of the cursor position upon execution of addText are used.
- ❑ Parameters x and y specify coordinates with the origin at the top left of the line display.

addReverseText

Adds reverse text display setting to the command buffer.

Syntax

- ❑ (int) addReverseText: (NSString *)data;
- ❑ (int) addReverseText: (NSString *)data lang: (int)lang;
- ❑ (int) addReverseText: (NSString *)data x: (long)x
y: (long)y;
- ❑ (int) addReverseText: (NSString *)data x: (long)x
y: (long)y lang: (int)lang;

Parameter

data

Specifies the string to display.

lang

Specifies the language to display the string.

Value	Description
EPOS2_LANG_EN (default)	English
EPOS2_LANG_JA	Japanese
EPOS2_PARAM_DEFAULT	Specifies the default value (English).

x

Specifies the x coordinate of the display position.

Value	Description
Integer from 1 to 20	X coordinate of the display position

y

Specifies the y coordinate of the display position.

Value	Description
Integer from 1 to 2	Y coordinate of the display position

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.

Error status	Description
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ If the coordinates of the display position are omitted, the coordinates of the cursor position upon execution of [addText](#) are used.
- ❑ Parameters x and y specify coordinates with the origin at the top left of the line display.

addMarqueeText

Adds marquee display setting to the command buffer.

The marquee is displayed on a single line in the horizontal scroll mode, without regard to the scroll mode setting of the display window.

Syntax

```
- (int)addMarqueeText:(NSString *)data
format:(int)format unitWait:(long)unitWait
repeatWait:(long)repeatWait
repeatCount:(long)repeatCount lang:(int)lang;
```

Parameter

data

Specifies the string to display.

format

Specifies how to display the string.

Value	Description
EPOS2_MARQUEE_WALK	Displays the text from the rightmost position of the window.
EPOS2_MARQUEE_PLACE	Displays the text from the leftmost position of the window.
EPOS2_PARAM_DEFAULT	Specifies the default value (Walk).

unitWait

Specifies the display interval per character (in milliseconds).

Value	Description
Integer from 1 to 2000	Display interval per character (in milliseconds).

repeatWait

Specifies the display repeat interval (in milliseconds).

Value	Description
Integer from 1 to 2000	Display repeat interval (in milliseconds)

repeatCount

Specifies the display repeat count.

Value	Description
Integer from 1 to 127	Display repeat count
0	Unlimited

lang

Specifies the language to display the string.

Value	Description
EPOS2_LANG_EN	English
EPOS2_LANG_JA	Japanese
EPOS2_PARAM_DEFAULT	Specifies the default value (English).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

For TM-m30+DM-D30, "0" is only allowed in repeatCount.

addSetBlink

Adds screen blink setting to the command buffer.

Syntax

- (int) setSetBlink: (long) interval;

Parameter

interval

Specifies the blink interval (in milliseconds). The setting value is rounded to the nearest 50 milliseconds.

Value	Description
Integer from 1 to 12700	Blink interval (in milliseconds)
0	Continuously lit
EPOS2_PARAM_DEFAULT	Specifies the default (continuously lit).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addSetBrightness

Adds brightness setting of the customer display to the command buffer.

Syntax

```
- (int) addSetBrightness: (int) brightness;
```

Parameter

brightness

Specifies the brightness value of the customer display.

Value	Description
EPOS2_BRIGHTNESS_20	Sets the customer display brightness to 20%.
EPOS2_BRIGHTNESS_40	Sets the customer display brightness to 40%.
EPOS2_BRIGHTNESS_60	Sets the customer display brightness to 60%.
EPOS2_BRIGHTNESS_100	Sets the customer display brightness to 100%.
EPOS2_PARAM_DEFAULT	Specifies the default value (brightness 100%).

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

addShowClock

Adds time display setting to the command buffer.

Displaying the time clears all the displayed text. When another command is sent while the time is displayed, the time disappears.

Syntax

```
- (int) addShowClock;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

Not available for TM-m30+DM-D30.

addCommand

Adds the ESC/POS command to the command buffer.

Syntax

```
- (int) addCommand:(NSData *)data;
```

Parameter

data

Specifies the ESC/POS command.

Specifies the binary data.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

For details on ESC/POS, see the specifications for this product. You need a contract separately to acquire the specifications. For details, contact the store of your purchase.

setReceiveEventDelegate

Registers a callback method for a response document reception event.

Syntax

```
- (void)
setReceiveEventDelegate: (id<Epos2DispReceiveDelegate>) delegate;
```

Parameter

delegate

Specifies an object conforming to the Epos2DispReceiveDelegate protocol.

Protocol declaration

```
@protocol Epos2DispReceiveDelegate <NSObject>
@required
- (void) onDispReceive: (Epos2LineDisplay *) displayObj
code: (int) code;
@end
```

Parameter

displayObj

The callback source object is stored.

code

The processing result is stored.

Error status	Description
EPOS2_SUCCESS	Display completed.
EPOS2_CODE_ERR_NOT_FOUND	The device was not found.
EPOS2_CODE_ERR_INVALID_WINDOW	An unregistered window was specified.
EPOS2_CODE_ERR_PORT	An internal communication error with the device occurred.
EPOS2_CODE_ERR_TIMEOUT	A timeout error occurred during communication with the device.

Supplementary explanation

- When this API is run multiple times, the callback method specified later takes effect.
- If nil is specified in delegate when calling this API, the registered callback method is canceled.

Epos2Keyboard class

init

Initializes the Epos2Keyboard class.

Syntax

```
- (id) init;
```

Return value

If the process succeeds, an initialized Epos2Keyboard class instance will be returned.

If the process fails, nil will be returned. The process may fail due to the following reasons:

Error status	Description
EPOS2_ERR_MEMORY	Memory could not be allocated.

connect

Starts communication with the keyboard.

Syntax

```
- (int) connect:(NSString *)target  
timeout:(long)timeout;
```

Parameter

target

Specifies the connection type and connection target.

Use the following syntax:

<connection type>:<identifier>(<device ID>)

Device	Connection type	Identifier	Description
Wi-Fi/Ethernet device	"TCP"	<ul style="list-style-type: none"> IP address in IPv4 format MAC address Host name 	"TCP:192.168.192.168(local_keyboard)"

timeout

Specifies the maximum time (in milliseconds) to wait for communication with the printer to be established.

Value	Description
Integer from 1000 to 300000	Maximum wait time before an error is returned (in milliseconds).
EPOS2_PARAM_DEFAULT	Specifies the default value (15000).

Return value

The result of the API is returned.

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_CONNECT	Failed to open the device.
EPOS2_ERR_TIMEOUT	Failed to communicate with the devices within the specified time.
EPOS2_ERR_ILLEGAL	Tried to start communication with a printer with which communication had been already established.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Error status	Description
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_NOT_FOUND	The device could not be found.
EPOS2_ERR_IN_USE	The device was in use.
EPOS2_ERR_TYPE_INVALID	The device type is different.

Supplementary explanation

- ❑ The device ID is an arbitrary string that is set when the printer and POS peripheral devices are registered to the TM intelligent printer. For details, refer to the Technical Reference Guide of the printer.
- ❑ For the TM intelligent printer, this API always succeeds without regard to the connection status between the printer and a peripheral device.

disconnect

Ends communication with the keyboard.

Syntax

```
- (int) disconnect;
```

Return value

The result of the API is returned.

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_ILLEGAL	Tried to end communication where it had not been established.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_DISCONNECT	Failed to disconnect the device.

getStatus

Acquires the current status information.

Syntax

- (KeyboardStatusInfo *) getStatus;

Return value

The current status is returned in the KeyboardStatusInfo type.

The following status information is stored in the object as a property.

Printer status	Status	Description
connection:	EPOS2_TRUE	Connected
Connection status	EPOS2_FALSE	Disconnected

Supplementary explanation

- ❑ The status object is set to the status at the timing of execution of this API and will not be updated.
- ❑ If this function is executed within a callback function, nil will be returned.

setPrefix

Sets the list of prefixes for string entry.

Syntax

```
- (int) setPrefix: (NSData *) prefixes;
```

Parameter

prefixes

Specifies the key code arrangement.

Refer to "[Key code list](#)" for the key codes.

Specifying nil disables setPrefix.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_CONNECT	Communication failed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

Entering nil or "" (blank) clears the current setting.

getPrefix

Acquires the list of prefixes currently set.

Syntax

```
- (NSData *)getPrefix;
```

Return value

The list of prefixes currently set by setPrefix is returned.

setKeyPressEventDelegate

Registers a callback method for a key press event.

Syntax

```
- (void)
setKeyPressEventDelegate:(id<Epos2KbdKeyPressDelegate>)
delegate;
```

Parameter

delegate

Specifies an object conforming to the Epos2KbdKeyPressDelegate protocol.

Protocol declaration

```
@protocol Epos2KbdKeyPressDelegate <NSObject>
@required
- (void) onKbdKeyPress:(Epos2Keyboard *)keyboardObj
keyCode:(int)keyCode ascii:(NSString *)ascii;
@end
```

Parameter

keyboardObj

The callback source object is stored.

keyCode

The code of the pressed key is stored.

ascii

The character corresponding to the code of the pressed key is stored. If no character corresponds to the key code, "" (blank character) is stored.

Supplementary explanation

- When this API is run multiple times, the callback method specified later takes effect.
- If nil is specified in delegate when calling this API, the registered callback method is canceled.

setReadStringEventDelegate

Registers a callback method which receives characters starting with one of the strings specified by [setPrefix](#) and ending with the Enter key as a string.

Syntax

```
- (void)
setReadStringEventDelegate:(id<Epos2KbdReadStringDelegate>)delegate;
```

Parameter

delegate

Specifies an object conforming to the Epos2KbdReadStringDelegate protocol.

Protocol declaration

```
@protocol Epos2KbdReadStringDelegate <NSObject>
@required
- (void) onKbdReadString:(Epos2Keyboard *)keyboardObj
readString:(NSString *)readString prefix:(int)prefix;
@end
```

Parameter

keyboardObj

The callback source object is stored.

readString

The detected string is stored.

prefix

Key code recognized as the start of a string is stored.

Supplementary explanation

- When this API is run multiple times, the callback method specified later takes effect.
- If nil is specified in delegate when calling this API, the registered callback method is canceled.

Epos2BarcodeScanner Class

init

Initializes the Epos2BarcodeScanner class.

Syntax

```
- (id) init;
```

Return value

If the process succeeds, an initialized Epos2BarcodeScanner class instance will be returned.

If the process fails, nil will be returned. The process may fail due to the following reasons:

Error status	Description
EPOS2_ERR_MEMORY	Memory could not be allocated.

connect

Starts communication with the barcode scanner.

Syntax

```
- (int) connect:(NSString *)target
timeout:(long)timeout;
```

Parameter

target

Specifies the connection type and connection target.

Use the following syntax:

<connection type>:<identifier>(<device ID>)

Device	Connection type	Identifier	Description
Wi-Fi/Ethernet device	"TCP"	<ul style="list-style-type: none"> IP address in IPv4 format MAC address Host name 	"TCP:192.168.192.168(local_scanner)"

timeout

Specifies the maximum time (in milliseconds) to wait for communication with the printer to be established.

Value	Description
Integer from 1000 to 300000	Maximum wait time before an error is returned (in milliseconds).
EPOS2_PARAM_DEFAULT	Specifies the default value (15000).

Return value

The result of the API is returned.

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_CONNECT	Failed to open the device.
EPOS2_ERR_TIMEOUT	Failed to communicate with the devices within the specified time.
EPOS2_ERR_ILLEGAL	Tried to start communication with a printer with which communication had been already established.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Error status	Description
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_NOT_FOUND	The device could not be found.
EPOS2_ERR_IN_USE	The device was in use.
EPOS2_ERR_TYPE_INVALID	The device type is different.

Supplementary explanation

- ❑ The device ID is an arbitrary string that is set when the printer and POS peripheral devices are registered to the TM intelligent printer. For details, refer to the Technical Reference Guide of the printer.
- ❑ For the TM intelligent printer, this API always succeeds without regard to the connection status between the printer and a peripheral device.

disconnect

Ends communication with the barcode scanner.

Syntax

```
- (int) disconnect;
```

Return value

The result of the API is returned.

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_ILLEGAL	Tried to end communication where it had not been established.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_DISCONNECT	Failed to disconnect the device.

getStatus

Acquires the current status information.

Syntax

```
- (ScannerStatusInfo *)getStatus;
```

Return value

The current status is returned in the ScannerStatusInfo type.

The following status information is stored in the object as a property.

Printer status	Status	Description
connection:	EPOS2_TRUE	Connected
Connection status	EPOS2_FALSE	Disconnected

Supplementary explanation

- ❑ The status object is set to the status at the timing of execution of this API and will not be updated.
- ❑ If this function is executed within a callback function, nil will be returned.

setScanEventDelegate

Registers a callback method for a barcode data entry event.

Syntax

```
- (void) setScanEventDelegate:  
    (id<Epos2ScanDelegate>) delegate;
```

Parameter

delegate

Specifies an object conforming to the Epos2ScanDelegate protocol.

Protocol declaration

```
@protocol Epos2ScanDelegate <NSObject>  
@required  
- (void) onScanData: (Epos2BarcodeScanner *) scannerObj  
    scanData: (NSString *) scanData;  
@end
```

Parameter

scannerObj

The callback source object is stored.

scanData

The detected string is stored.

Supplementary explanation

- When this API is run multiple times, the callback method specified later takes effect.
- If nil is specified in delegate when calling this API, the registered callback method is canceled.

Epos2SimpleSerial Class

init

Initializes the Epos2SimpleSerial class.

Syntax

```
- (id) init;
```

Return value

If the process succeeds, an initialized Epos2SimpleSerial class instance will be returned.

If the process fails, nil will be returned. The process may fail due to the following reasons:

Error status	Description
EPOS2_ERR_MEMORY	Memory could not be allocated.

connect

Starts communication with the serial communication device.

Syntax

```
- (int) connect:(NSString *)target  
timeout:(long)timeout;
```

Parameter

target

Specifies the connection type and connection target.

Use the following syntax:

<connection type>:<identifier>(<device ID>)

Device	Connection type	Identifier	Description
Wi-Fi/Ethernet device	"TCP"	<ul style="list-style-type: none"> IP address in IPv4 format MAC address Host name 	"TCP:192.168.192.168(local_serial)"

timeout

Specifies the maximum time (in milliseconds) to wait for communication with the printer to be established.

Value	Description
Integer from 1000 to 300000	Maximum wait time before an error is returned (in milliseconds).
EPOS2_PARAM_DEFAULT	Specifies the default value (15000).

Return value

The result of the API is returned.

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_CONNECT	Failed to open the device.
EPOS2_ERR_TIMEOUT	Failed to communicate with the devices within the specified time.
EPOS2_ERR_ILLEGAL	Tried to start communication with a printer with which communication had been already established.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Error status	Description
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_NOT_FOUND	The device could not be found.
EPOS2_ERR_IN_USE	The device was in use.
EPOS2_ERR_TYPE_INVALID	The device type is different.

Supplementary explanation

- ❑ The device ID is an arbitrary string that is set when the printer and POS peripheral devices are registered to the TM intelligent printer. For details, refer to the Technical Reference Guide of the printer.
- ❑ For the TM intelligent printer, this API always succeeds without regard to the connection status between the printer and a peripheral device.

disconnect

Ends communication with the serial communication device.

Syntax

```
- (int) disconnect;
```

Return value

The result of the API is returned.

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_ILLEGAL	Tried to start communication with a printer with which communication had been already established.
EPOS2_ERR_MEMORY	Necessary memory could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_DISCONNECT	Failed to disconnect the device.

getStatus

Acquires the current status information.

Syntax

- (SerialStatusInfo *) getStatus;

Return value

The current status is returned in the SerialStatusInfo type.

The following status information is stored in the object as a property.

Printer status	Status	Description
connection:	EPOS2_TRUE	Connected
Connection status	EPOS2_FALSE	Disconnected

Supplementary explanation

- ❑ The status object is set to the status at the timing of execution of this API and will not be updated.
- ❑ If this function is executed within a callback function, nil will be returned.

sendCommand

Transfers a command.

The return value of this API is the result of sending data to the devices.

The processing result of the devices using this API is returned to the callback method set by the [setReceiveEventDelegate](#)API of the Epos2SimpleSerial class.

Syntax

```
- (int) sendCommand: (NSData *) data;
```

Parameter

data

Specifies the command.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started.

setReceiveEventDelegate

Registers a callback method for a reception event from the device.

Syntax

```
- (void)
setReceiveEventDelegate:(id<Epos2SimpleSerialReceiveDelegate>)delegate;
```

Parameter

delegate

Specifies an object conforming to the Epos2SimpleSerialReceiveDelegate protocol.

Protocol declaration

```
@protocol Epos2SimpleSerialReceiveDelegate <NSObject>
@required
- (void) onSimpleSerialReceive:(Epos2SimpleSerial
*) serialObj data:(NSData *)data;
@end
```

Parameter

serialObj

The callback source object is stored.

data

Receives reception data.

Supplementary explanation

- When this API is run multiple times, the callback method specified later takes effect.
- If nil is specified in delegate when calling this API, the registered callback method is canceled.

Epos2CommBox Class

init

Initializes the Epos2CommBox class.

Syntax

- (id) init;

Return value

If the process succeeds, an initialized Epos2CommBox class instance will be returned.

If the process fails, nil will be returned. The process may fail due to the following reasons:

Error status	Description
EPOS2_ERR_MEMORY	Memory could not be allocated.

connect

Starts communication with the communication box.

Syntax

```
- (int)connect: (NSString *)target timeout: (long)timeout
myId: (NSString *)myId;
```

Parameter

target

Specifies the connection type and connection target.

Use the following syntax:

<connection type>:<identifier>(<box ID>)

Device	Connection type	Identifier	Description
Wi-Fi/Ethernet device	"TCP"	<ul style="list-style-type: none"> IP address in IPv4 format MAC address Host name 	"TCP:192.168.192.168(Box1)"

timeout

Specifies the maximum time (in milliseconds) to wait for communication with the printer to be established.

Value	Description
Integer from 1000 to 300000	Maximum wait time before an error is returned (in milliseconds).
EPOS2_PARAM_DEFAULT	Specifies the default value (15000).

myId

Specifies a member ID to identify the application itself in the communication box.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_CONNECT	Could not open the device.
EPOS2_ERR_TIMEOUT	Failed to communicate with the devices within the specified time.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.

Error status	Description
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_ALREADY_OPENED	Communication box is already open.
EPOS2_ERR_ALREADY_USED	Specified member ID is already in use.
EPOS2_ERR_BOX_COUNT_OVER	The number of created communication boxes has exceeded the upper limit.
EPOS2_ERR_BOX_CLIENT_OVER	The number of members belong to the communication box has exceeded the upper limit.

Supplementary explanation

For the TM intelligent printer, this API always succeeds without regard to the connection status between the printer and a peripheral device.

disconnect

Ends communication with the communication box.

Syntax

```
- (int) disconnect;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_CONNECT	Communication failed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.

getStatus

Acquires the current status information.

Syntax

- (CommBoxStatusInfo *) getStatus;

Return value

The current status is returned in the CommBoxStatusInfo type.

The following status information is stored in the object as a property.

Printer status	Status	Description
connection:	EPOS2_TRUE	Connected
Connection status	EPOS2_FALSE	Disconnected

Supplementary explanation

- ❑ The status object is set to the status at the timing of execution of this API and will not be updated.
- ❑ If this function is executed within a callback function, nil will be returned.

getCommHistory

Acquires the transmission history of the communication box.

The return value of this API is the result of sending data to the devices.

The processing result of the devices using this API is returned to the callback method.

Syntax

```
- (int) getCommHistory: (id<Epos2GetCommHistoryDelegate>) delegate;
```

Parameter

delegate

Specifies an object conforming to the Epos2GetCommHistoryDelegate protocol.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_CONNECT	Communication failed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.

Protocol declaration

```
@protocol Epos2GetCommHistoryDelegate <NSObject>
@required
- (void) onGetCommHistory: (Epos2CommBox *) commBoxObj
code: (int) code historyList: (NSArray *) historyList;
@end
```

Parameter

commBoxObj

The callback source object is stored.

code

Error status	Description
EPOS2_SUCCESS	Processed successfully.
EPOS2_CODE_FAILURE	An unknown error occurred.

historyList

The transmission history of the communication box is stored.

(NSDictionary *)historyList(index)	
Key	Description
(NSString *)senderId	The member ID of the transmitter is stored. If no member ID was specified when running the connect method, "" (blank character) is set.
(NSString *)receiverId	The member ID of the receiver is stored. If data was sent to all the members of the communication box, "" (blank character) is set.
(NSString *)message	Received data is set.

sendMessage

Sends a message to the communication box.

The return value of this API is the result of sending data to the devices.

The processing result of the devices using this API is returned to the callback method.

Syntax

```
- (int)sendMessage:(NSString *)message
           targetId:(NSString *)targetId
            delegate:(id<Epos2CommBoxSendMessageDelegate>)delegate;
```

Parameter

message

Specifies data to send to the communication box.

targetId

Specifies the member ID of the receiver.

When nil or "" (blank character) is specified, data is sent to all the members other than the transmitter.

delegate

Specifies an object conforming to the Epos2CommBoxSendMessageDelegate protocol.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.
EPOS2_ERR_ILLEGAL	This API was called while no communication had been started.

Protocol declaration

```
@protocol Epos2CommBoxSendMessageDelegate <NSObject>
@required
- (void)onCommBoxSendMessage:(Epos2CommBox
*)commBoxObj code:(int)code count:(long)count;
@end
```

Parameter

commBoxObject

The callback source object is stored.

code

Error status	Description
EPOS2_CODE_SUCCESS	Processed successfully.
EPOS2_CODE_ERR_NOT_FOUND	Specified member ID cannot be found.
EPOS2_CODE_ERR_FAILURE	An unknown error occurred.

count

Number of clients which tried to send the message is stored.

setReceiveEventDelegate

Registers a callback method for a message reception event of the communication box.

Syntax

```
- (void)
setReceiveEventDelegate: (id<Epos2CommBoxReceiveDelegate
>) delegate;
```

Parameter

delegate

Specifies an object conforming to the Epos2CommBoxReceiveDelegate protocol.

Protocol declaration

```
@protocol Epos2CommBoxReceiveDelegate <NSObject>
@required
- (void) onCommBoxReceive: (Epos2CommBox *) commBoxObj
senderId: (NSString *) senderId receiverId: (NSString
*) receiverId message: (NSString *) message;
@end;
```

Parameter

commBoxObj

The callback source object is stored.

senderId

The member ID of the transmitter is stored.

If no member ID was specified when running the connect method, "" (blank character) is set.

receiverId

The member ID of the receiver is stored.

If data was sent to all the members of the communication box, "" (blank character) is set.

message

The received message is stored.

Supplementary explanation

- ❑ When this API is run multiple times, the callback method specified later takes effect.
- ❑ If nil is specified in delegate when calling this API, the registered callback method is canceled.

Common to all classes

getAdmin

Acquires the administrator name set with TM-DT software or TM-i firmware.

Syntax

```
- (NSString *)getAdmin;
```

Return value

A string for the administrator name.

Supplementary explanation

- If not set, "" (blank character) is returned for the TM printer.
- The administrator name is set by EPSON TMNet WebConfig.

getLocation

Acquires the installation location information set with TM-DT software or TM-i firmware.

Syntax

```
- (NSString *) getLocation;
```

Return value

A string for the installation location.

Supplementary explanation

- ❑ If not set, "" (blank character) is returned for the TM printer.
- ❑ The installation location information is set by EPSON TMNet WebConfig.

setConnectionEventDelegate

Registers a callback method which receives a notification that the reconnection process has been started.

Syntax

```
- (void)
setConnectionEventDelegate:(id<Epos2ConnectionDelegate>
)delegate;
```

Parameter

delegate

Specifies an object conforming to the Epos2ConnectionDelegate protocol.

Protocol declaration

```
@protocol Epos2ConnectionDelegate <NSObject>
@required
- (void) onConnection:(id)deviceObj
eventType:(int)eventType;
@end
```

Parameter

deviceObj

The callback source object is stored.

eventType

The type of the event that occurred is stored.

Event type	Description
EPOS2_EVENT_RECONNECTING	Reconnection start event
EPOS2_EVENT_RECONNECT	Reconnection completion event
EPOS2_EVENT_DISCONNECT	Disconnection event

Supplementary explanation

- ❑ When this API is run multiple times, the callback method specified later takes effect.
- ❑ If nil is specified in delegate when calling this API, the registered callback method is canceled.
- ❑ It takes about 30 seconds for the disconnection event to occur after the disconnection.
- ❑ EPOS2_EVENT_DISCONNECT occurs in the following cases:
 - When disconnect is running
 - When connection fails after occurrence of EPOS2_EVENT_RECONNECTING
- ❑ When EPOS2_EVENT_DISCONNECT occurs, it is not necessary to call disconnect.
 - When disconnect is called, ERR_ILLEGAL will be returned in the return value.

Epos2Discovery Class

start

Starts searching for the specified device type.

Each device is reported by the callback as it is detected.

Syntax

```
+ (int) start:(Epos2FilterOption *)filterOption
delegate:(id<Epos2DiscoveryDelegate>)delegate;
```

Parameter

filterOption

In order to filter the search result, set the filter option in the Epos2FilterOption type and specify it in the parameter. When nil is specified, search is run with the default settings.

The following information is stored in the Epos2FilterOption type.

portType

Selects the port to search.

Value	Description
EPOS2_PORTTYPE_ALL (default)	Search for all devices which can be connected via TCP and <i>Bluetooth</i> .
EPOS2_PORTTYPE_TCP	Search for devices connected to the network.
EPOS2_PORTTYPE_BLUETOOTH	Search for devices which can be connected via <i>Bluetooth</i> .

broadcast

Specify a Broadcast Address for TCP search as a string.

Value	Description
"255.255.255.255" (default)	-

deviceModel

Specifies the device model to search for.

Value	Description
EPOS2_MODEL_ALL	Search for all models.

deviceType

Specifies the device type to search for.

Value	Description
EPOS2_TYPE_ALL (default)	Search for all devices.
EPOS2_TYPE_PRINTER	Search for printers.
EPOS2_TYPE_DISPLAY	Search for customer displays.

Value	Description
EPOS2_TYPE_KEYBOARD	Search for keyboards.
EPOS2_TYPE_SCANNER	Search for barcode scanners.
EPOS2_TYPE_SERIAL	Search for serial communication devices.

delegate

Specifies an object conforming to the Epos2DiscoveryDelegate protocol.

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_ILLEGAL	Tried to start search when search had been already done.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_ERR_FAILURE	An unknown error occurred.
EPOS2_ERR_PROCESSING	Could not run the process.

Protocol declaration

```
@protocol Epos2DiscoveryDelegate <NSObject>
@required
- (void) onDiscovery: (Epos2DeviceInfo *) deviceInfo;
@end
```

Parameter*deviceInfo*

The device information of the detected device is stored in the Epos2DeviceInfo type.

The following device information is stored.

 deviceType

The device type is stored.

Device type	Status
For a printer	EPOS2_TYPE_PRINTER
For a customer display	EPOS2_TYPE_DISPLAY
For a keyboard	EPOS2_TYPE_KEYBOARD
For a barcode scanner	EPOS2_TYPE_SCANNER
For a serial communication device	EPOS2_TYPE_SERIAL

target

The connection target of a device which can be specified by connectAPI is stored as a string.

Example)

"TCP:192.168.192.168"

"BT:00:22:15:7D:70:9C"

"TCP:192.168.192.168(local_printer)"

"TCP:192.168.192.168(local_display)"

"TCP:12:34:56:78:56:78"

deviceName

The name set to the device is stored.

If it could not be acquired, "" (blank character) is stored.

Example)

For a printer: "TM-T88V"

ipAddress

The IP address is stored.

If it could not be acquired, "" (blank character) is stored.

Example)

TCP: "192.168.192.168"

BT: ""(blank character)

macAddress

The MAC address is stored.

If it could not be acquired, "" (blank character) is stored.

Example)

TCP: "12:34:56:78:56:78"

BT: ""(blank character)

bdAddress

The BD address is stored.

If it could not be acquired, "" (blank character) is stored.

Example)

TCP: ""(blank character)

BT: "12:34:56:78:56:78"

Supplementary explanation

The search result of this API is reported to the callback function for each device detected.

An already opened device is also reported. However, an already opened *Bluetooth* device is not reported.

In search for TCP devices, if multiple devices with the same IP address exist, the device information is treated as a single device. Consistency for such device information is not guaranteed.

stop

Stops search.

Syntax

```
+ (int) stop;
```

Return value

Error status	Description
EPOS2_SUCCESS	The function was executed successfully.
EPOS2_ERR_ILLEGAL	Tried to stop a search while it had not been started.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

After starting search, it must be ended.

Epos2Log Class

setLogSettings

Sets the log output function.

Syntax

```
+ (int) setLogSettings:(int) period output:(int) output
    ipAddress:(NSString *)ipAddress port:(int)port
    logSize:(int)logSize logLevel:(int)logLevel;
```

Parameter

period

Specifies whether the log output function setting is temporary or permanent.

The configuration file is not created for temporary setting but is created for permanent setting.

Value	Description
EPOS2_PERIOD_TEMPORARY	Temporarily reflects the setting.
EPOS2_PERIOD_PERMANENT	Permanently reflects the setting.

output

Enables or disables the log output function and specifies the log output location.

Value	Description
EPOS2_OUTPUT_DISABLE	Disables the log output function.
EPOS2_OUTPUT_STORAGE	Output to the storage of the terminal.
EPOS2_OUTPUT_TCP	Output via TCP.

ipAddress

Specifies the IP address for TCP communication.

Specifies the IP address in the IPv4 format.

nil can be specified when the log output function is disabled or the log is output to the storage of the terminal.

port

Specifies the port number for TCP communication.

Also specifies a value within the valid range even when the log output function is disabled or the log is output to the storage of the terminal.

Value	Description
Integer from 0 to 65535	Port number

logSize

Specifies the maximum capacity of the log stored in the storage.

Also specifies a value within the valid range even when the log output function is disabled or the log is output to TCP.

Value	Description
Integer from 1 to 50	Maximum capacity of the log stored (in MB)

logLevel

Specifies the log output level.

Value	Description
EPOS2_LOGLEVEL_LOW	Low level

Return value

Error status

If the process succeeds, EPOS2_SUCCESS will be returned.

If the process fails, one of the following values be returned.

Error status	Description
EPOS2_ERR_PARAM	An invalid parameter was passed.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

When setting output to EPOS2_OUTPUT_STORAGE, enable the file sharing setting of iTunes. Follow the procedure below.

1. Add "UIFileSharingEnabled" to nfo.plist of the application. Automatically changed to "Application supports iTunes file sharing".
2. Set Value of "Application supports iTunes file sharing" to "YES."

SdkVersion

Acquires the Epson ePOS SDK version.

Syntax

Getter

- (NSString) getSdkVersion

Supplementary explanation

The version of SDK used can be acquired as a character string.

Example: "Ver.2.0.0"

Epos2BluetoothConnection Class

connectDevice

Shows a list of *Bluetooth* devices available for pairing and pairs a selected device with the terminal.
Acquires the *Bluetooth* address of the printer newly paired with the terminal.

Syntax

```
- (int) connectDevice:(NSMutableString *) macAddress;
```

Parameter

macAddress

The BD address of the printer newly paired is returned.

Format	Description
BT:00:11:22:33:44:55	Separated by ":" (colon).

Return value

The result of the API is returned.

Error status	Description
EPOS2_BT_SUCCESS	The function was executed successfully.
EPOS2_BT_ERR_PARAM	An invalid parameter was passed.
EPOS2_BT_ERR_UNSUPPORTED	The function was executed on an unsupported OS.
EPOS2_BT_ERR_CANCEL	Pairing connection was canceled.
EPOS2_BT_ERR_ALREADY_CONNECT	A printer already paired was selected.
EPOS2_BT_ERR_ILLEGAL_DEVICE	An invalid device was selected.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

- ❑ Use this API before calling [connect](#) API.
- ❑ This API is supported by iOS7.0 or later only.
- ❑ When using on an iOS terminal with the arm64 architecture, add "arm64" to the architectures used to build the application.
- ❑ Complete pairing and connecting with the *Bluetooth* device, and then start the application, or use `connectDevice` API to establish pairing and connection with the device.

disconnectDevice

Disconnects from a *Bluetooth* device paired with the terminal.

Syntax

```
- (int) disconnectDevice:(NSString *) macAddress;
```

Parameter

macAddress

The BD address of the printer to disconnect the pairing is returned.

Format	Description
00:11:22:33:44:55	Separated by ":" (colon).
00-11-22-33-44-55	Separated by "-" (hyphen).
1122334455	No separation

Return value

The result of the API is returned.

Error status	Description
EPOS2_BT_SUCCESS	The function was executed successfully.
EPOS2_BT_ERR_PARAM	An invalid parameter was passed.
EPOS2_BT_ERR_CONNECT	A communication error occurred.
EPOS2_BT_ERR_MEMORY	Memory necessary for processing could not be allocated.
EPOS2_BT_ERR_ILLEGAL	The function was used in an illegal way.
EPOS2_BT_ERR_UNSUPPORTED	The function was used with an unsupported printer.
EPOS2_ERR_FAILURE	An unknown error occurred.

Supplementary explanation

Use this API after calling [disconnect](#) API.

EasySelect Class

parseQR

Analyzes QR tags data.

Syntax

```
public EasySelectInfo parseQR(String data)
```

Parameter

data

Specifies QR code data that has been read by using iOS API.

Return value

The QR code analysis result is returned to the member variables of the EasySelectInfo class.

When the analysis has failed, null is returned.

Supplementary explanation

Create the QR code using [createQR](#) API and print it to be read.

Some printers can print the QR code on a status sheet. For details, refer to the Technical Reference Guide of the printer.

createQR

Creates QR code data that can be analyzed by [parseQR](#).

Syntax

```
public String createQR(String printerName, int
deviceType, String macAddress)
```

Parameter

printerName

Specifies a printer name.

deviceType

Specifies a printer type.

Value	Description
EPOS_EASY_SELECT_DEVTYPE_TCP	Network printer (wired / wireless)
EPOS_EASY_SELECT_DEVTYPE_BLUETOOTH	<i>Bluetooth</i> compatible printer

macAddress

Specifies a MAC address (for a network printer), or a BD address (for a *Bluetooth* compatible printer). The following shows the address format.

Format	Description
00:11:22:33:44:55	Separate the digits by colons.
00-11-22-33-44-55	Separate the digits by hyphens.
001122334455	No separation

Return value

QR code print data is returned. Specify this data by [addSymbol](#) to print the QR code.

When failed to create the print data, null is returned.

Supplementary explanation

To see the printer name, MAC address, and BD address, print a status sheet from the printer.

For instructions on how to print the status sheet, refer to the Technical Reference Guide of the printer.

EasySelectInfo Class

deviceType

Stores printer type information.

Stored data	Description
EPOS_EASY_SELECT_DEVTYPE_TCP	Network printer
EPOS_EASY_SELECT_DEVTYPE_BLUETOOTH	<i>Bluetooth</i> compatible printer

Syntax

```
int deviceType;
```

printerName

Stores printer name information.

Syntax

```
NSString *printerName;
```

macAddress

Stores a MAC address or a BD address.

Syntax

```
String macAddress;
```

Status list

Error Status and countermeasures

HResult	Cause	Countermeasure
EPOS2_ERR_PARAM	An invalid parameter was passed. <Example> A value outside the supported range was specified.	Check the value specified in the parameter.
EPOS2_ERR_CONNECT	Communication with the printer failed. <Example> Transmission of print data to the printer failed.	Run disconnect for the appropriate class and then connect to restore communication. For the <i>Bluetooth</i> model, use connectDevice first to establish pairing connection before performing the above process.
EPOS2_ERR_TIMEOUT	Failed to communicate with the devices within the specified time.	Check the timeout period. Set the timeout period to longer than the time required for printing.
EPOS2_ERR_MEMORY	Memory necessary for processing could not be allocated.	Close unnecessary applications.
EPOS2_ERR_ILLEGAL	The function was used in an illegal way. <Example> Tried to start communication with a printer with which communication had been already established.	Use the API in the correct manner.
EPOS2_ERR_PROCESSING	Could not run the process. <Example> The specified process could not be run because a similar process was being run by another thread.	Check if the process overlaps with another process in time.
EPOS2_ERR_UNSUPPORTED	A model name or language not supported was specified.	A function cannot be used if it is not supported by the specified model.
EPOS2_ERR_NOT_FOUND	The specified target could not be found. <Example> The printer specified as the connection target does not exist.	Check if the connection type and/or IP address are correct.

HResult	Cause	Countermeasure
EPOS2_ERR_IN_USE	The specified device is in use. <Example> The device is being used by another application.	Stop using the device from another application.
EPOS2_ERR_TYPE_INVALID	The device class is not correct (Epos2Printer, Epos2LineDisplay).	Check the class of the connected device and connect to it with the correct device class.
	This TM printer does not support ESC/POS.	Use it as the TM intelligent printer.
EPOS2_ERR_DISCONNECT	Communication with the device has been disconnected.	Check connection with the device.
EPOS2_ERR_ALREADY_OPENED	Communication box is already open.	Finish communication with the communication box.
EPOS2_ERR_ALREADY_USED	Specified member ID is already in use.	Specify a different member ID.
EPOS2_ERR_BOX_COUNT_OVER	The number of created communication boxes has exceeded the upper limit.	Delete an unnecessary communication box.
EPOS2_ERR_BOX_CLIENT_OVER	The number of members belong to the communication box has exceeded the upper limit.	Delete a member who is not using the communication box.
EPOS2_ERR_FAILURE	An unknown error occurred.	Check for a problem with the execution environment.

Callback Codes and countermeasures

CallbackCode	Cause	Countermeasure
EPOS2_CODE_SUCCESS	Processed successfully.	-
EPOS2_CODE_ERR_TIMEOUT	The process exceeded the specified timeout period.	Adjust the timeout period.
EPOS2_CODE_ERR_NOT_FOUND	<ul style="list-style-type: none"> The connection type and/or IP address are not correct. The specified device is not connected. 	<ul style="list-style-type: none"> Check if the connection type and/or IP address are correct. Check connection with the device.
EPOS2_CODE_ERR_AUTORECOVER	<ul style="list-style-type: none"> Head overheat error occurred. Motor driver IC overheat error occurred. Battery overheat error occurred. 	Start the process after the device is cooled down.
	The print reference mark on the label sheet cannot be found.	Open and close the cover.
EPOS2_CODE_ERR_COVER_OPEN	Cover is open.	Close the printer cover.
EPOS2_CODE_ERR_CUTTER	Auto cutter error occurred.	Remove the error cause and power off and then on the printer.
EPOS2_CODE_ERR_MECHANICAL	Mechanical error occurred.	Remove the error cause and power off and then on the printer.
EPOS2_CODE_ERR_EMPTY	Paper has run out.	Refill the paper.
EPOS2_CODE_ERR_UNRECOVERABLE	Unrecoverable error occurred.	Power off and then on the printer. Contact the distributor or service center if the problem persists.
EPOS2_CODE_ERR_SYSTEM	An error occurred with the TM-i firmware or TM-DT software.	Power off and then on the TM intelligent printer to restart the OS.
EPOS2_CODE_ERR_PORT	Forced transmission was run in the online state.	Run forced transmission in the offline state.
EPOS2_CODE_ERR_INVALID_WINDOW	An unregistered window was specified.	Check the specified window.
EPOS2_CODE_ERR_JOB_NOT_FOUND	A print job ID which did not exist was specified.	Check the specified job ID.
EPOS2_CODE_PRINTING	<code>requestPrintJobStatus</code> was run by specifying a print job ID which was being printed.	Run the process after printing completes.

CallbackCode	Cause	Countermeasure
EPOS2_CODE_ERR_SPOOLER	Print data exceeding the spooler capacity was transmitted.	Check if communication with the printer is disconnected.
EPOS2_CODE_ERR_BATTERY_LOW	Battery has run out.	Replace the battery or connect the AC adapter.
EPOS2_CODE_ERR_FAILURE	An unknown error occurred.	Check for a problem with the execution environment.

Printer Status and countermeasures

Printer Status	Cause	Countermeasure
status.connection==EPOS2_FALSE	<ul style="list-style-type: none"> The printer is powered off. No connection is established with the printer. 	Check the power and communication status of the printer.
status.online==EPOS2_FALSE	Offline status.	Remove a cause which forces the printer offline (e.g., the cover is open or paper has run out).
status.online==EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.
status.coverOpen==EPOS2_TRUE	Cover is open.	Close the printer cover.
status.coverOpen==EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.
status.paper==EPOS2_PAPER_NEAR_END	Running short of paper.	Replace the paper.
status.paper==EPOS2_PAPER_EMPTY	Paper has run out.	Refill the paper.
status.paper==EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.
status.paperFeed==EPOS2_TRUE	Paper is being fed by pressing the Paper Feed button.	Run the process after paper feed completes.
status.paperFeed==EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.
status.panelSwitch==EPOS2_SWITCH_ON	Panel switch is being operated.	Run the process after the operation completes.
status.panelSwitch==EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.
status.waitOnline==EPOS2_TRUE	Waiting for recovery to online.	Return the printer online.
status.waitOnline==EPOS2_FALSE	Offline status.	Remove a cause which forces the printer offline (e.g., the cover is open or paper has run out).
status.waitOnline==EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.
status.errorStatus==EPOS2_MECHANICAL_ERR	Mechanical error occurred.	Remove the error cause and power off and then on the printer.
status.errorStatus==EPOS2_AUTOCUTTER_ERR	Auto cutter error occurred.	Remove the error cause and power off and then on the printer.

Printer Status	Cause	Countermeasure
status.errorStatus== EPOS2_UNRECOVER_ERR	Unrecoverable error occurred.	Power off and then on the printer. Contact the distributor or service center if the problem persists.
status.errorStatus== EPOS2_AUTORECOVER_ERR	<ul style="list-style-type: none"> Head overheat error occurred. Motor driver IC overheat error occurred. Battery overheat error occurred. 	Start the process after the device is cooled down.
	The print reference mark on the label sheet cannot be found.	Open and close the cover.
status.errorStatus== EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.
status.autoRecoverError== EPOS2_HEAD_OVERHEAT	Head overheat error occurred.	Run the process after the device gets cooled down.
status.autoRecoverError== EPOS2_MOTOR_OVERHEAT	Motor driver IC overheat error occurred.	Run the process after the device gets cooled down.
status.autoRecoverError== EPOS2_BATTERY_OVERHEAT	Battery overheat error occurred.	Run the process after the device gets cooled down.
status.autoRecoverError== EPOS2_WRONG_PAPER	The print reference mark on the label sheet cannot be found.	Open and close the cover.
status.autoRecoverError== EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.
status.buzzer==EPOS2_TRUE	Buzzer is sounding.	Check the buzzer sounding condition of the printer, and run the process after removing the cause for buzzer sounding.
status.buzzer==EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.
status.adapter==EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.
status.batteryLevel== EPOS2_BATTERY_LEVEL_1	Running short of battery.	Charge the battery or connect the AC adapter.
status.batteryLevel== EPOS2_BATTERY_LEVEL_0	Battery has run out.	Replace the battery or connect the AC adapter.
status.batteryLevel== EPOS2_UNKNOWN	No connection is established with the printer.	Check the communication status of the printer.

Key code list

Constant	Code	Constant	Code
EPOS2_VK_BACK	0x08	EPOS2_VK_L	0x4C
EPOS2_VK_TAB	0x09	EPOS2_VK_M	0x4D
EPOS2_VK_RETURN	0x0D	EPOS2_VK_N	0x4E
EPOS2_VK_SHIFT	0x10	EPOS2_VK_O	0x4F
EPOS2_VK_CONTROL	0x11	EPOS2_VK_P	0x50
EPOS2_VK_MENU	0x12	EPOS2_VK_Q	0x51
EPOS2_VK_CAPITAL	0x14	EPOS2_VK_R	0x52
EPOS2_VK_ESCAPE	0x1B	EPOS2_VK_S	0x53
EPOS2_VK_CONVERT	0x1C	EPOS2_VK_T	0x54
EPOS2_VK_NONCONVERT	0x1D	EPOS2_VK_U	0x55
EPOS2_VK_SPACE	0x20	EPOS2_VK_V	0x56
EPOS2_VK_PRIOR	0x21	EPOS2_VK_W	0x57
EPOS2_VK_NEXT	0x22	EPOS2_VK_X	0x58
EPOS2_VK_END	0x23	EPOS2_VK_Y	0x59
EPOS2_VK_HOME	0x24	EPOS2_VK_Z	0x5A
EPOS2_VK_LEFT	0x25	EPOS2_VK_MULTIPLY	0x6A
EPOS2_VK_UP	0x26	EPOS2_VK_ADD	0x6B
EPOS2_VK_RIGHT	0x27	EPOS2_VK_SUBTRACT	0x6D
EPOS2_VK_DOWN	0x28	EPOS2_VK_F1	0x70
EPOS2_VK_INSERT	0x2D	EPOS2_VK_F2	0x71
EPOS2_VK_DELETE	0x2E	EPOS2_VK_F3	0x72
EPOS2_VK_0	0x30	EPOS2_VK_F4	0x73
EPOS2_VK_1	0x31	EPOS2_VK_F5	0x74
EPOS2_VK_2	0x32	EPOS2_VK_F6	0x75
EPOS2_VK_3	0x33	EPOS2_VK_F7	0x76
EPOS2_VK_4	0x34	EPOS2_VK_F8	0x77
EPOS2_VK_5	0x35	EPOS2_VK_F9	0x78
EPOS2_VK_6	0x36	EPOS2_VK_F10	0x79
EPOS2_VK_7	0x37	KEPOS2_VK_F11	0x7A
EPOS2_VK_8	0x38	EPOS2_VK_F12	0x7B
EPOS2_VK_9	0x39	EPOS2_VK_OEM_1	0xBA
EPOS2_VK_A	0x41	EPOS2_VK_OEM_PLUS	0xBB
EPOS2_VK_B	0x42	EPOS2_VK_OEM_COMMAS	0xBC

Constant	Code	Constant	Code
EPOS2.VK.C	0x43	EPOS2.VK.OEM_MINUS	0xBD
EPOS2.VK.D	0x44	EPOS2.VK.OEM_PERIOD	0xBE
EPOS2.VK.E	0x45	EPOS2.VK.OEM_2	0xBF
EPOS2.VK.F	0x46	EPOS2.VK.OEM_3	0xC0
EPOS2.VK.G	0x47	EPOS2.VK.OEM_4	0xDB
EPOS2.VK.H	0x48	EPOS2.VK.OEM_5	0xDC
EPOS2.VK.I	0x49	EPOS2.VK.OEM_6	0xDD
EPOS2.VK.J	0x4A	EPOS2.VK.OEM_7	0xDE
EPOS2.VK.K	0x4B	EPOS2.VK.OEM_ATTN	0xF0

Device Specifications

Provides information about restriction on the use of APIs depend on devices such as printer and POS peripheral device, and the parameter setting value.

Supported printers for each class

The following is a list of supported printers for each class.

Class	Supported Printers
Epos2Printer class	All Printers Availability and restriction on the use of API differs by printers. Refer to List of Supported APIs .
Epos2LineDisplay class	Use together with the following printer and customer display. <ul style="list-style-type: none">• TM intelligent printer+DM-D110• TM-m30+DM-D30• TM-T88VI+DM-D30/DM-D110
Epos2Keyboard class	TM intelligent printer
Epos2BarcodeScanner class	TM intelligent printer
Epos2SimpleSerial class	TM intelligent printer
Epos2CommBox class	TM intelligent printer that meets the following conditions. <ul style="list-style-type: none">• TM-DT series: TM-DT software Ver. 2.5 or later• TM-i series: TM-i firmware Ver. 4.0 or later
Common to all classes	TM intelligent printer
Epos2Discovery class	All Printers
Epos2Log class	All Printers
Epos2BluetoothConnection class	Can be specified only with the <i>Bluetooth</i> model of the following printers. <ul style="list-style-type: none">• TM-m10• TM-m30• TM-P20• TM-P60II (Receipt) (Firmware version 5.14 ESC/POS or later)• TM-P60II (Peeler) (Firmware version 6.14 ESC/POS or later)• TM-P80 (Firmware version 1.02 ESC/POS or later)• TM-P80AC (Firmware version 2.01 ESC/POS or later)• TM-T20II• TM-T70II• TM-T88V• TM-T88VI

Class	Supported Printers
EasySelect class	All Printers <ul style="list-style-type: none">• parseQR Analyzes a QR code that is created using createQR and printed using addSymbol, or QR code that is printed on a status sheets.• createQR However, whether a QR code can be printed or not depends on usage restrictions of addSymbol
EasySelectInfo class	All Printers

List of Supported APIs

Provides list of supported APIs for each printer.

The following is an explanation of the symbol indicated in table:

- : Supported.
- △ : Supported but has a restriction on specifying the parameter setting value.
- : Not supported.

Refer to Printer-specific Support Information.

Printer class

TM Printers

API	TM-m10	TM-m30	TM-P20	TM-P60 (Receipt)	TM-P60 (Peeler)	TM-P60II (Receipt)	TM-P60II (Peeler)	TM-P80	TM-T20	TM-T20II	TM-T60	TM-T70	TM-T70II	TM-T81II	TM-T82	TM-T82II	TM-T88V	TM-T88VI	TM-U220	TM-U330
initWithPrinterSeries	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	
connect	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
disconnect	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
startMonitor	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
stopMonitor	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
getStatus	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
sendData	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
beginTransaction	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
endTransaction	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
requestPrintJobStatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
clearCommandBuffer	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
addTextAlign	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
addLineSpace	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
addTextRotate	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
addText	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
addTextLang	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
addTextFont	△	△	○	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	
addTextSmooth	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
addTextSize	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	
addTextStyle	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	

API	TM-m10	TM-m30	TM-P20	TM-P60 (Receipt)	TM-P60 (Peeler)	TM-P60II (Receipt)	TM-P60II (Peeler)	TM-P80	TM-T20	TM-T20II	TM-T60	TM-T70	TM-T70II	TM-T81II	TM-T82	TM-T82II	TM-T88V	TM-T88VI	TM-U220	TM-U330
	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	○
addHPosition	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	○
addFeedUnit	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
addFeedLine	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
addImage	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
addLogo	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-
addBarcode	△	△	○	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	-	-
addSymbol	△	△	△	-	△	△	△	△	△	△	△	△	△	△	△	△	△	△	-	-
addHLine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
addVLineBegin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
addVLineEnd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
addPageBegin	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-
addPageEnd	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-
addPageArea	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-
addPageDirection	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-
addPagePosition	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	-
addPageLine	-	-	△	△	△	△	△	△	△	-	-	-	-	-	-	-	-	-	△	-
addPageRectangle	-	-	△	△	△	△	△	△	△	-	-	-	-	-	-	-	-	-	△	-
addCut	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
addPulse	○	○	-	-	-	-	-	-	-	○	○	○	○	○	○	○	○	○	○	○
addSound	△	△	△	-	-	△	△	△	△	△	△	-	-	△	-	△	△	△	△	-
addFeedPosition	-	-	△	-	○	-	○	△	-	-	-	-	-	-	-	-	-	-	-	△
addLayout	-	-	△	-	○	-	○	△	-	-	-	-	-	-	-	-	-	-	-	-
addCommand	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
forceRecover	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
forcePulse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
forceStopSound	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
forceCommand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
forceReset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
setStatusChangeEventDelegate	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

API	TM-m10	TM-m30	TM-P20	TM-P60 (Receipt)	TM-P60 (Peeler)	TM-P60II (Receipt)	TM-P60II (Peeler)	TM-P80	TM-T20	TM-T20II	TM-T60	TM-T70	TM-T70II	TM-T81II	TM-T82	TM-T82II	TM-T88V	TM-T88VI	TM-U220	TM-U330
setReceiveEventDelegate	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
interval	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

TM Intelligent Printers

API	TM-T20II-i	TM-T70-i	TM-T70II-DT	TM-T82II-i	TM-T83II-i	TM-T88V-i	TM-T88V-DT	TM-U220-i	TM-H6000IV-DT
initWithPrinterSeries	△	△	△	△	△	△	△	△	△
connect	○	○	○	○	○	○	○	○	○
disconnect	○	○	○	○	○	○	○	○	○
startMonitor	○	○	○	○	○	○	○	○	○
stopMonitor	○	○	○	○	○	○	○	○	○
getStatus	○	○	○	○	○	○	○	○	○
sendData	○	○	○	○	○	○	○	○	○
beginTransaction	-	-	-	-	-	-	-	-	-
endTransaction	-	-	-	-	-	-	-	-	-
requestPrintJobStatus	○	○	○	○	○	○	○	○	○
clearCommandBuffer	○	○	○	○	○	○	○	○	○
addTextAlign	○	○	○	○	○	○	○	○	○
addLineSpace	○	○	○	○	○	○	○	○	○
addTextRotate	○	○	○	○	○	○	○	○	○
addText	○	○	○	○	○	○	○	○	○
addTextLang	○	○	○	○	○	○	○	○	○
addTextFont	△	△	△	△	△	△	△	△	△
addTextSmooth	○	○	○	○	○	○	○	○	○
addTextSize	○	○	○	○	○	○	○	-	○
addTextStyle	△	△	△	△	△	△	△	△	△
addHPosition	○	○	○	○	○	○	○	-	○
addFeedUnit	○	○	○	○	○	○	○	○	○

API	TM-T20II-I	TM-T70-I	TM-T70II-DT	TM-T82II-I	TM-T83II-I	TM-T88V-I	TM-T88V-DT	TM-U220-I	TM-H6000IV-DT
addFeedLine	○	○	○	○	○	○	○	○	○
addImage	△	△	△	△	△	△	△	△	△
addLogo	○	○	○	○	○	○	○	-	○
addBarcode	△	△	△	△	△	△	△	-	△
addSymbol	△	△	△	△	△	△	△	-	△
addHLine	-	-	-	-	-	-	-	-	-
addVLineBegin	-	-	-	-	-	-	-	-	-
addVLineEnd	-	-	-	-	-	-	-	-	-
addPageBegin	○	○	○	○	○	○	○	-	○
addPageEnd	○	○	○	○	○	○	○	-	○
addPageArea	○	○	○	○	○	○	○	-	○
addPageDirection	○	○	○	○	○	○	○	-	○
addPagePosition	○	○	○	○	○	○	○	-	○
addPageLine	-	-	-	-	-	-	-	-	-
addPageRectangle	-	-	-	-	-	-	-	-	-
addCut	△	△	△	△	△	△	△	△	△
addPulse	○	○	○	○	○	○	○	○	○
addSound	△	-	△	△	△	△	△	-	-
addFeedPosition	-	-	-	-	-	-	-	-	-
addLayout	-	-	-	-	-	-	-	-	-
addCommand	○	○	○	○	○	○	○	○	○
forceRecover	○	○	○	○	○	○	○	-	○
forcePulse	○	○	○	○	○	○	○	○	○
forceStopSound	○	-	○	○	○	○	○	-	-
forceCommand	○	○	○	○	○	○	○	○	○
forceReset	○	○	○	○	○	○	○	○	○
setStatusChangeEventDelegate	○	○	○	○	○	○	○	○	○
setReceiveEventDelegate	○	○	○	○	○	○	○	○	○
interval	○	○	○	○	○	○	○	○	○

Network Printers

API	TM-T88IV	TM-T90	TM-L90	ACD6000
initWithPrinterSeries	△	△	△	△
connect	○	○	○	○
disconnect	○	○	○	○
startMonitor	○	○	○	○
stopMonitor	○	○	○	○
getStatus	○	○	○	○
sendData	○	○	○	○
beginTransaction	-	-	-	-
endTransaction	-	-	-	-
requestPrintJobStatus	-	-	-	-
clearCommandBuffer	○	○	○	○
addTextAlign	○	○	○	○
addLineSpace	○	○	○	○
addTextRotate	○	○	○	○
addText	○	○	○	○
addTextLang	○	○	○	○
addTextFont	△	△	△	△
addTextSmooth	○	○	○	○
addTextSize	○	○	○	○
addTextStyle	△	△	△	△
addHPosition	○	○	○	○
addFeedUnit	○	○	○	○
addFeedLine	○	○	○	○
addImage	△	△	△	△
addLogo	○	○	○	○
addBarcode	△	△	△	△
addSymbol	△	△	△	△
addHLine	-	-	-	-
addVLineBegin	-	-	-	-
addVLineEnd	-	-	-	-
addPageBegin	○	○	○	○

API	TM-T88IV	TM-T90	TM-L90	TM-H6000IV
addPageEnd	○	○	○	○
addPageArea	○	○	○	○
addPageDirection	○	○	○	○
addPagePosition	○	○	○	○
addPageLine	-	-	-	-
addPageRectangle	-	-	-	-
addCut	△	△	△	△
addPulse	○	○	○	○
addSound	-	-	-	-
addFeedPosition	-	-	○	-
addLayout	-	-	-	-
addCommand	○	○	○	○
forceRecover	-	-	-	-
forcePulse	-	-	-	-
forceStopSound	-	-	-	-
forceCommand	-	-	-	-
forceReset	-	-	-	-
setStatusChangeEventDelegate	○	○	○	○
setReceiveEventDelegate	○	○	○	○
interval	○	○	○	○

Printer-specific Support Information

TM-m10

Printer Specifications

Item	Specification
Amount of initial feed	30 dots
Initial page mode area	420 x 2400 dots
Maximum page mode area	420 x 2400 dots
Baseline of Font A	21 dots from the top of the character
Baseline of Font B	21 dots from the top of the character
Baseline of Font C	16 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_M10
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_TAIWAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED • EPOS2_SYMBOL_AZTECCODE_FULLRANGE • EPOS2_SYMBOL_AZTECCODE_COMPACT • EPOS2_SYMBOL_DATAMATRIX_SQUARE • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_8 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_12 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_16
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none"> • EPOS2_PATTERN_NONE • EPOS2_PATTERN_A • EPOS2_PATTERN_B • EPOS2_PATTERN_C • EPOS2_PATTERN_D • EPOS2_PATTERN_E • EPOS2_PATTERN_ERROR • EPOS2_PATTERN_PAPER_EMPTY • EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none"> • 1 to 255 • EPOS2_PARAM_DEFAULT

TM-m30*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	420 x 2400 dots	576 x 2400 dots
Maximum page mode area	420 x 2400 dots	576 x 2400 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	ANK	21 dots from the top of the character
	Chinese characters	21 dots from the top of the character
	Hangul character	15 dots from the top of the character
Baseline of Font C	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_M30
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_KOREAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED • EPOS2_SYMBOL_AZTECCODE_FULLRANGE • EPOS2_SYMBOL_AZTECCODE_COMPACT • EPOS2_SYMBOL_DATAMATRIX_SQUARE • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_8 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_12 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_16
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none"> • EPOS2_PATTERN_NONE • EPOS2_PATTERN_A • EPOS2_PATTERN_B • EPOS2_PATTERN_C • EPOS2_PATTERN_D • EPOS2_PATTERN_E • EPOS2_PATTERN_ERROR • EPOS2_PATTERN_PAPER_EMPTY • EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none"> • 1 to 255 • EPOS2_PARAM_DEFAULT

TM-P20*Printer Specifications*

Item	Specification
Amount of initial feed	30 dots
Initial page mode area	384 x 2400 dots
Maximum page mode area	384 x 2400 dots
Baseline of Font A	21 dots from the top of the character
Baseline of Font B	21 dots from the top of the character
Baseline of Font C	16 dots from the top of the character
Baseline of Font D	21 dots from the top of the character
Baseline of Font E	15 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_P20
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_SOUTHASIA
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED • EPOS2_SYMBOL_AZTECCODE_FULLRANGE • EPOS2_SYMBOL_AZTECCODE_COMPACT • EPOS2_SYMBOL_DATAMATRIX_SQUARE • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_8 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_12 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_16
addPageLine	lineStyle	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addPageRectangle	Style	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addSound	pattern	<ul style="list-style-type: none"> • EPOS2_PATTERN_NONE • EPOS2_PATTERN_1 • EPOS2_PATTERN_2 • EPOS2_PATTERN_3 • EPOS2_PATTERN_4 • EPOS2_PATTERN_5 • EPOS2_PATTERN_6 • EPOS2_PATTERN_7 • EPOS2_PATTERN_8 • EPOS2_PATTERN_9 • EPOS2_PATTERN_10 • EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none"> • 1 to 255 • EPOS2_PARAM_DEFAULT
addFeedPosition	position	<ul style="list-style-type: none"> • EPOS2_FEED_CUTTING • EPOS2_FEED_CURRENT_TOF • EPOS2_FEED_NEXT_TOF
addLayout	type	<ul style="list-style-type: none"> • EPOS2_LAYOUT_RECEIPT • EPOS2_LAYOUT_RECEIPT_BM
	height	<ul style="list-style-type: none"> • Receipt (without black mark) • Receipt (with black mark)
	marginTop	<ul style="list-style-type: none"> • Receipt (without black mark) • Receipt (with black mark)
	marginBottom	<ul style="list-style-type: none"> • Receipt (without black mark) • Receipt (with black mark)
	offsetCut	<ul style="list-style-type: none"> • Receipt (without black mark) • Receipt (with black mark)
	offsetLabel	<ul style="list-style-type: none"> • Receipt (without black mark) • Receipt (with black mark)

TM-P60 (Receipt)

Printer Specifications

Item	58mm Specification	60mm Specification
Amount of initial feed	30 dots	
Initial page mode area	420 x 1200 dots	432 x 1200 dots
Maximum page mode area	420 x 1200 dots	432 x 1200 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	21 dots from the top of the character	
Baseline of Font C	15 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_P60
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_TAIWAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addBarcode	type	<ul style="list-style-type: none"> • EPOS2_BARCODE_UPC_A • EPOS2_BARCODE_UPC_E • EPOS2_BARCODE_EAN13 • EPOS2_BARCODE_JAN13 • EPOS2_BARCODE_EAN8 • EPOS2_BARCODE_JAN8 • EPOS2_BARCODE_CODE39 • EPOS2_BARCODE_ITF • EPOS2_BARCODE_CODABAR • EPOS2_BARCODE_CODE93 • EPOS2_BARCODE_CODE128
	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addPageLine	lineStyle	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addPageRectangle	Style	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT

TM-P60 (Peeler)

Printer Specifications

Item	58mm Specification	60mm Specification
Amount of initial feed	30 dots	
Initial page mode area	420 x 1200 dots	432 x 1200 dots
Maximum page mode area	420 x 1200 dots	432 x 1200 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	21 dots from the top of the character	
Baseline of Font C	15 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_P60
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addBarcode	type	<ul style="list-style-type: none"> • EPOS2_BARCODE_UPC_A • EPOS2_BARCODE_UPC_E • EPOS2_BARCODE_EAN13 • EPOS2_BARCODE_JAN13 • EPOS2_BARCODE_EAN8 • EPOS2_BARCODE_JAN8 • EPOS2_BARCODE_CODE39 • EPOS2_BARCODE_ITF • EPOS2_BARCODE_CODABAR • EPOS2_BARCODE_CODE93 • EPOS2_BARCODE_CODE128
	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED • EPOS2_SYMBOL_AZTECCODE_FULLRANGE • EPOS2_SYMBOL_AZTECCODE_COMPACT • EPOS2_SYMBOL_DATAMATRIX_SQUARE • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_8 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_12 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_16
addPageLine	lineStyle	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addPageRectangle	Style	<ul style="list-style-type: none">• EPOS2_LINE_THIN• EPOS2_LINE_MEDIUM• EPOS2_LINE_THICK• EPOS2_PARAM_DEFAULT
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT

TM-P60II (Receipt)

Printer Specifications

Item	Receipt Specification	Die-cut Label Specification
Amount of initial feed	30 dots	
Initial page mode area	432 x 1624 dots	400 x 1624 dots
Maximum page mode area	432 x 1624 dots	400 x 1624 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	
Baseline of Font C	15 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_P60II
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_TAIWAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED • EPOS2_SYMBOL_AZTECCODE_FULLRANGE • EPOS2_SYMBOL_AZTECCODE_COMPACT • EPOS2_SYMBOL_DATAMATRIX_SQUARE • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_8 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_12 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_16
addPageLine	lineStyle	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addPageRectangle	Style	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_1• EPOS2_PATTERN_2• EPOS2_PATTERN_3• EPOS2_PATTERN_4• EPOS2_PATTERN_5• EPOS2_PATTERN_6• EPOS2_PATTERN_7• EPOS2_PATTERN_8• EPOS2_PATTERN_9• EPOS2_PATTERN_10• EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none">• 1 to 255• EPOS2_PARAM_DEFAULT

TM-P60II (Peeler)

Printer Specifications

Item	Receipt Specification	Die-cut Label Specification
Amount of initial feed	30 dots	
Initial page mode area	432 x 1624 dots	400 x 1624 dots
Maximum page mode area	432 x 1624 dots	400 x 1624 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	
Baseline of Font C	15 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_P60II
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_TAIWAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED • EPOS2_SYMBOL_AZTECCODE_FULLRANGE • EPOS2_SYMBOL_AZTECCODE_COMPACT • EPOS2_SYMBOL_DATAMATRIX_SQUARE • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_8 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_12 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_16
addPageLine	lineStyle	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addPageRectangle	Style	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_1• EPOS2_PATTERN_2• EPOS2_PATTERN_3• EPOS2_PATTERN_4• EPOS2_PATTERN_5• EPOS2_PATTERN_6• EPOS2_PATTERN_7• EPOS2_PATTERN_8• EPOS2_PATTERN_9• EPOS2_PATTERN_10• EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none">• 1 to 255• EPOS2_PARAM_DEFAULT

TM-P80*Printer Specifications*

Item	Specification
Amount of initial feed	30 dots
Initial page mode area	576 x 1662 dots
Maximum page mode area	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character
Baseline of Font B	16 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_P80
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_TAIWAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED • EPOS2_SYMBOL_AZTECCODE_FULLRANGE • EPOS2_SYMBOL_AZTECCODE_COMPACT • EPOS2_SYMBOL_DATAMATRIX_SQUARE • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_8 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_12 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_16
addPageLine	lineStyle	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addPageRectangle	Style	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addSound	pattern	<ul style="list-style-type: none"> • EPOS2_PATTERN_NONE • EPOS2_PATTERN_1 • EPOS2_PATTERN_2 • EPOS2_PATTERN_3 • EPOS2_PATTERN_4 • EPOS2_PATTERN_5 • EPOS2_PATTERN_6 • EPOS2_PATTERN_7 • EPOS2_PATTERN_8 • EPOS2_PATTERN_9 • EPOS2_PATTERN_10 • EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none"> • 1 to 255 • EPOS2_PARAM_DEFAULT
addFeedPosition	position	<ul style="list-style-type: none"> • EPOS2_FEED_CUTTING • EPOS2_FEED_CURRENT_TOF • EPOS2_FEED_NEXT_TOF
addLayout	type	<ul style="list-style-type: none"> • EPOS2_LAYOUT_RECEIPT • EPOS2_LAYOUT_RECEIPT_BM
	height	<ul style="list-style-type: none"> • Receipt (without black mark) • Receipt (with black mark)
	marginTop	<ul style="list-style-type: none"> • Receipt (without black mark) • Receipt (with black mark)
	marginBottom	<ul style="list-style-type: none"> • Receipt (without black mark) • Receipt (with black mark)
	offsetCut	<ul style="list-style-type: none"> • Receipt (without black mark) • Receipt (with black mark)
	offsetLabel	<ul style="list-style-type: none"> • Receipt (without black mark) • Receipt (with black mark)

TM-T20*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	420 x 831 dots	576 x 831 dots
Maximum page mode area	420 x 1662 dots	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T20
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none">• 1 to 255• EPOS2_PARAM_DEFAULT

TM-T20II*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	420 x 831 dots	576 x 831 dots
Maximum page mode area	420 x 1662 dots	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T20
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none">• 1 to 255• EPOS2_PARAM_DEFAULT

TM-T60*Printer Specifications*

Item	58mm Specification
Amount of initial feed	30 dots
Initial page mode area	576 x 831 dots
Maximum page mode area	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character
Baseline of Font B	16 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T60
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_CHINESE
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addBarcode	type	<ul style="list-style-type: none"> • EPOS2_BARCODE_UPC_A • EPOS2_BARCODE_UPC_E • EPOS2_BARCODE_EAN13 • EPOS2_BARCODE_JAN13 • EPOS2_BARCODE_EAN8 • EPOS2_BARCODE_JAN8 • EPOS2_BARCODE_CODE39 • EPOS2_BARCODE_ITF • EPOS2_BARCODE_CODABAR • EPOS2_BARCODE_CODE93 • EPOS2_BARCODE_CODE128
	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	width	<ul style="list-style-type: none"> • PDF417 • QR Code
	height	<ul style="list-style-type: none"> • PDF417 • QR Code
	size	<ul style="list-style-type: none"> • PDF417 • QR Code

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT

TM-T70*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	ANK model	416 x 1662 dots
	Multiple languages model	416 x 1662 dots
Maximum page mode area	ANK model	416 x 1662 dots
	Multiple languages model	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T70
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addBarcode	type	<ul style="list-style-type: none"> • EPOS2_BARCODE_UPC_A • EPOS2_BARCODE_UPC_E • EPOS2_BARCODE_EAN13 • EPOS2_BARCODE_JAN13 • EPOS2_BARCODE_EAN8 • EPOS2_BARCODE_JAN8 • EPOS2_BARCODE_CODE39 • EPOS2_BARCODE_ITF • EPOS2_BARCODE_CODABAR • EPOS2_BARCODE_CODE93 • EPOS2_BARCODE_CODE128
	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	width	<ul style="list-style-type: none"> • PDF417 • QR Code
	height	<ul style="list-style-type: none"> • PDF417 • QR Code
	size	<ul style="list-style-type: none"> • PDF417 • QR Code

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT

TM-T70II*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	ANK model	416 x 1662 dots
	Multiple languages model	416 x 1662 dots
Maximum page mode area	ANK model	416 x 1662 dots
	Multiple languages model	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T70
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_SOUTHASIA
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none">• 1 to 255• EPOS2_PARAM_DEFAULT

TM-T81II*Printer Specifications*

Item	58mm Specification
Amount of initial feed	30 dots
Initial page mode area	576 x 831 dots
Maximum page mode area	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character
Baseline of Font B	16 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T81
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_CHINESE
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addBarcode	type	<ul style="list-style-type: none"> • EPOS2_BARCODE_UPC_A • EPOS2_BARCODE_UPC_E • EPOS2_BARCODE_EAN13 • EPOS2_BARCODE_JAN13 • EPOS2_BARCODE_EAN8 • EPOS2_BARCODE_JAN8 • EPOS2_BARCODE_CODE39 • EPOS2_BARCODE_ITF • EPOS2_BARCODE_CODABAR • EPOS2_BARCODE_CODE93 • EPOS2_BARCODE_CODE128
	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	width	<ul style="list-style-type: none"> • PDF417 • QR Code
	height	<ul style="list-style-type: none"> • PDF417 • QR Code
	size	<ul style="list-style-type: none"> • PDF417 • QR Code

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT

TM-T82*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	420 x 831 dots	576 x 831 dots
Maximum page mode area	420 x 1662 dots	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T82
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_CHINESE • EPOS2_MODEL_SOUTHASIA
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none">• 1 to 255• EPOS2_PARAM_DEFAULT

TM-T82II*Printer Specifications*

Item	Specification
Amount of initial feed	30 dots
Initial page mode area	576 x 831 dots
Maximum page mode area	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character
Baseline of Font B	16 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T82
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_SOUTHASIA
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none">• 1 to 255• EPOS2_PARAM_DEFAULT

TM-T88V*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	360 x 831 dots	512 x 831 dots
Maximum page mode area	360 x 1662 dots	512 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	ANK	16 dots from the top of the character
	Chinese characters	15 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T88
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_KOREAN • EPOS2_MODEL_SOUTHASIA
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none">• 1 to 255• EPOS2_PARAM_DEFAULT

TM-T88VI*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	360 x 831 dots	512 x 831 dots
Maximum page mode area	360 x 1662 dots	512 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	ANK	16 dots from the top of the character
	Chinese characters	15 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T88
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_KOREAN • EPOS2_MODEL_SOUTHASIA
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED • EPOS2_SYMBOL_AZTECCODE_FULLRANGE • EPOS2_SYMBOL_AZTECCODE_COMPACT • EPOS2_SYMBOL_DATAMATRIX_SQUARE • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_8 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_12 • EPOS2_SYMBOL_DATAMATRIX_RECTANGLE_16
addPageLine	lineStyle	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addPageRectangle	Style	<ul style="list-style-type: none"> • EPOS2_LINE_THIN • EPOS2_LINE_MEDIUM • EPOS2_LINE_THICK • EPOS2_PARAM_DEFAULT
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none"> • EPOS2_PATTERN_NONE • EPOS2_PATTERN_A • EPOS2_PATTERN_B • EPOS2_PATTERN_C • EPOS2_PATTERN_D • EPOS2_PATTERN_E • EPOS2_PATTERN_ERROR • EPOS2_PATTERN_PAPER_EMPTY • EPOS2_PARAM_DEFAULT
	repeat	<ul style="list-style-type: none"> • 1 to 255 • EPOS2_PARAM_DEFAULT

TM-U220*Printer Specifications*

Item	76mm Specification	69.5mm Specification	57.5mm Specification
Amount of initial feed	12 dots		

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_U220
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_KOREAN • EPOS2_MODEL_THAI
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_COLOR_2 • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_COLOR_2 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT

TM-U330*Printer Specifications*

Item	76mm Specification	69.5mm Specification	57.5mm Specification
Amount of initial feed	12 dots		

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_U330
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_CHINESE
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_COLOR_2 • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_COLOR_2 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT
addFeedPosition	position	<ul style="list-style-type: none"> • EPOS2_FEED_CUTTING

TM-T20II-i*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	420 x 831 dots	576 x 831 dots
Maximum page mode area	420 x 1662 dots	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T20
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT

TM-T70-i*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	ANK model	416 x 1662 dots
	Multiple languages model	416 x 1662 dots
Maximum page mode area	ANK model	416 x 1662 dots
	Multiple languages model	416 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T70
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addBarcode	type	<ul style="list-style-type: none"> • EPOS2_BARCODE_UPC_A • EPOS2_BARCODE_UPC_E • EPOS2_BARCODE_EAN13 • EPOS2_BARCODE_JAN13 • EPOS2_BARCODE_EAN8 • EPOS2_BARCODE_JAN8 • EPOS2_BARCODE_CODE39 • EPOS2_BARCODE_ITF • EPOS2_BARCODE_CODABAR • EPOS2_BARCODE_CODE93 • EPOS2_BARCODE_CODE128
	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	width	<ul style="list-style-type: none"> • PDF417 • QR Code
	height	<ul style="list-style-type: none"> • PDF417 • QR Code
	size	<ul style="list-style-type: none"> • PDF417 • QR Code

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT

TM-T70II-DT*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	ANK model	416 x 1662 dots
	Multiple languages model	416 x 1662 dots
Maximum page mode area	ANK model	416 x 1662 dots
	Multiple languages model	416 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T70
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_SOUTHASIA
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT

TM-T82II-i*Printer Specifications*

Item	Specification
Amount of initial feed	30 dots
Initial page mode area	576 x 831 dots
Maximum page mode area	576 x 1662 dots
Baseline of Font A	21 dots from the top of the character
Baseline of Font B	16 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T82
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_SOUTHASIA
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT

TM-T83II-i*Printer Specifications*

Item		Specification
Amount of initial feed		30 dots
Initial page mode area		512 x 1662 dots
Maximum page mode area		512 x 1662 dots
Baseline of Font A		21 dots from the top of the character
Baseline of Font B	ANK	16 dots from the top of the character
	Chinese characters	15 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T83
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_KOREAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT

TM-T88V-i*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	360 x 831 dots	512 x 831 dots
Maximum page mode area	360 x 1662 dots	512 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	ANK	16 dots from the top of the character
	Chinese characters	15 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T88
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_KOREAN • EPOS2_MODEL_SOUTHASIA
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT

TM-T88V-DT*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	360 x 831 dots	512 x 831 dots
Maximum page mode area	360 x 1662 dots	512 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	ANK	16 dots from the top of the character
	Chinese characters	15 dots from the top of the character

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T88
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_KOREAN • EPOS2_MODEL_SOUTHASIA
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT
addSound	pattern	<ul style="list-style-type: none">• EPOS2_PATTERN_NONE• EPOS2_PATTERN_A• EPOS2_PATTERN_B• EPOS2_PATTERN_C• EPOS2_PATTERN_D• EPOS2_PATTERN_E• EPOS2_PATTERN_ERROR• EPOS2_PATTERN_PAPER_EMPTY• EPOS2_PARAM_DEFAULT

TM-U220-i*Printer Specifications*

Item	76mm Specification	69.5mm Specification	57.5mm Specification
Amount of initial feed	12 dots		

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_U220
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_KOREAN • EPOS2_MODEL_THAI
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_COLOR_2 • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_COLOR_2 • EPOS2_PARAM_DEFAULT
	mode	<ul style="list-style-type: none"> • EPOS2_MODE_MONO • EPOS2_MODE_MONO_HIGH_DENSITY • EPOS2_PARAM_DEFAULT
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT

TM-H6000IV-DT*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	360 x 831 dots	512 x 831 dots
Maximum page mode area	360 x 1662 dots	512 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_H6000
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT

TM-T88IV*Printer Specifications*

Item		58mm Specification	80mm Specification
Amount of initial feed		30 dots	
Initial page mode area	Monochrome printing	360 x 831 dots	512 x 831 dots
	Two-color printing	360 x 415 dots	512 x 415 dots
Maximum page mode area	Monochrome printing	360 x 1662 dots	512 x 1662 dots
	Two-color printing	360 x 831 dots	512 x 831 dots
Baseline of Font A		21 dots from the top of the character	
Baseline of Font B		16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T88
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_COLOR_2 • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_COLOR_2 • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addBarcode	type	<ul style="list-style-type: none"> • EPOS2_BARCODE_UPC_A • EPOS2_BARCODE_UPC_E • EPOS2_BARCODE_EAN13 • EPOS2_BARCODE_JAN13 • EPOS2_BARCODE_EAN8 • EPOS2_BARCODE_JAN8 • EPOS2_BARCODE_CODE39 • EPOS2_BARCODE_ITF • EPOS2_BARCODE_CODABAR • EPOS2_BARCODE_CODE93 • EPOS2_BARCODE_CODE128
	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	width	<ul style="list-style-type: none"> • PDF417 • QR Code
	height	<ul style="list-style-type: none"> • PDF417 • QR Code
	size	<ul style="list-style-type: none"> • PDF417 • QR Code

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT

TM-T90*Printer Specifications*

Item	58mm Specification	60mm Specification	80mm Specification	
Amount of initial feed	30 dots			
Initial page mode area	Monochrome printing	420 x 738 dots	384 x 831 dots	576 x 738 dots
	Two-color printing	420 x 369 dots	384 x 415 dots	576 x 369 dots
Maximum page mode area	Monochrome printing	420 x 1476 dots	384 x 1662 dots	576 x 1476 dots
	Two-color printing	420 x 738 dots	384 x 831 dots	576 x 738 dots
Baseline of Font A	21 dots from the top of the character			
Baseline of Font B	16 dots from the top of the character			

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_T90
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_KOREAN • EPOS2_MODEL_THAI
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_COLOR_2 • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_COLOR_2 • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addBarcode	type	<ul style="list-style-type: none"> • EPOS2_BARCODE_UPC_A • EPOS2_BARCODE_UPC_E • EPOS2_BARCODE_EAN13 • EPOS2_BARCODE_JAN13 • EPOS2_BARCODE_EAN8 • EPOS2_BARCODE_JAN8 • EPOS2_BARCODE_CODE39 • EPOS2_BARCODE_ITF • EPOS2_BARCODE_CODABAR • EPOS2_BARCODE_CODE93 • EPOS2_BARCODE_CODE128
	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_FONT_C • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417
	height	<ul style="list-style-type: none"> • PDF417
	size	<ul style="list-style-type: none"> • PDF417
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT

TM-L90*Printer Specifications*

Item	Receipt Specification	Die-cut Label Specification
Amount of initial feed	30 dots	
Initial page mode area	Monochrome printing	576 x 738 dots 560 x 738 dots
	Two-color printing	576 x 369 dots 560 x 369 dots
Maximum page mode area	Monochrome printing	576 x 1476 dots 560 x 1476 dots
	Two-color printing	576 x 738 dots 560 x 738 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	ANK: 16 Chinese characters: 15 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_L90
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_ANK • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN • EPOS2_MODEL_KOREAN • EPOS2_MODEL_THAI
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_COLOR_2 • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_COLOR_2 • EPOS2_PARAM_DEFAULT

API	Parameter	Specifiable Setting Value
addBarcode	type	<ul style="list-style-type: none">• EPOS2_BARCODE_UPC_A• EPOS2_BARCODE_UPC_E• EPOS2_BARCODE_EAN13• EPOS2_BARCODE_JAN13• EPOS2_BARCODE_EAN8• EPOS2_BARCODE_JAN8• EPOS2_BARCODE_CODE39• EPOS2_BARCODE_ITF• EPOS2_BARCODE_CODABAR• EPOS2_BARCODE_CODE93• EPOS2_BARCODE_CODE128
	font	<ul style="list-style-type: none">• EPOS2_FONT_A (default)• EPOS2_FONT_B• EPOS2_PARAM_DEFAULT• EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode
addCut	type	<ul style="list-style-type: none"> • EPOS2_CUT_FEED • EPOS2_CUT_NO_FEED • EPOS2_PARAM_DEFAULT

TM-H6000IV*Printer Specifications*

Item	58mm Specification	80mm Specification
Amount of initial feed	30 dots	
Initial page mode area	360 x 831 dots	512 x 831 dots
Maximum page mode area	360 x 1662 dots	512 x 1662 dots
Baseline of Font A	21 dots from the top of the character	
Baseline of Font B	16 dots from the top of the character	

Parameter Restrictions

API	Parameter	Specifiable Setting Value
initWithPrinterSeries	printerSeries	<ul style="list-style-type: none"> • EPOS2_TM_H6000
	lang	<ul style="list-style-type: none"> • EPOS2_MODEL_CHINESE • EPOS2_MODEL_TAIWAN
addTextFont	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT
addTextStyle	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 (default) • EPOS2_PARAM_UNSPECIFIED • EPOS2_PARAM_DEFAULT
addImage	color	<ul style="list-style-type: none"> • EPOS2_COLOR_NONE • EPOS2_COLOR_1 • EPOS2_PARAM_DEFAULT
addBarcode	font	<ul style="list-style-type: none"> • EPOS2_FONT_A (default) • EPOS2_FONT_B • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED

API	Parameter	Specifiable Setting Value
addSymbol	type	<ul style="list-style-type: none"> • EPOS2_SYMBOL_PDF417_STANDARD • EPOS2_SYMBOL_PDF417_TRUNCATED • EPOS2_SYMBOL_QRCODE_MODEL_1 • EPOS2_SYMBOL_QRCODE_MODEL_2 • EPOS2_SYMBOL_MAXICODE_MODE_2 • EPOS2_SYMBOL_MAXICODE_MODE_3 • EPOS2_SYMBOL_MAXICODE_MODE_4 • EPOS2_SYMBOL_MAXICODE_MODE_5 • EPOS2_SYMBOL_MAXICODE_MODE_6 • EPOS2_SYMBOL_GS1_DATABAR_STACKED • EPOS2_SYMBOL_GS1_DATABAR_STACKED_OMNIDIRECTIONAL • EPOS2_SYMBOL_GS1_DATABAR_EXPANDED_STACKED
	level	<ul style="list-style-type: none"> • EPOS2_LEVEL_0 • EPOS2_LEVEL_1 • EPOS2_LEVEL_2 • EPOS2_LEVEL_3 • EPOS2_LEVEL_4 • EPOS2_LEVEL_5 • EPOS2_LEVEL_6 • EPOS2_LEVEL_7 • EPOS2_LEVEL_8 • EPOS2_LEVEL_L • EPOS2_LEVEL_M • EPOS2_LEVEL_Q • EPOS2_LEVEL_H • EPOS2_PARAM_DEFAULT • EPOS2_PARAM_UNSPECIFIED
	width	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	height	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar
	size	<ul style="list-style-type: none"> • PDF417 • QR Code • MaxiCode • 2D GS1 DataBar • Other

API	Parameter	Specifiable Setting Value
addCut	type	<ul style="list-style-type: none">• EPOS2_CUT_FEED• EPOS2_CUT_NO_FEED• EPOS2_PARAM_DEFAULT

Usage restriction by firmware version

Availability and restriction on the use of API differs by TM-DT software and TM-i firmware version installed on TM intelligent printer.

For how to check or update the version of TM-DT software and TM-i firmware, refer to the Technical Reference Guide of the printer.

Class	API	Parameter	Value	Description
Epos2CommBox class	-	-	-	Supported by TM-DT software Ver. 2.5 and TM-i firmware 4.0 or later.
Epos2Printer class	requestPrint-JobStatus	-	-	Supported by TM-DT software Ver. 2.5 and TM-i firmware 4.1 or later.
Epos2Printer class	addSymbol	data	QR Code Micro	
Epos2Printer class	addSymbol	type	Printer.Symbol-Type.QRCodeMicro	
Epos2Printer class	setReceiveEvent-Delegate	args	PrintJobId	
Epos2Discovery class	start	-	-	Since the TM-DT software product name included "DT" in the default setting, TM-DT series can be searched by the product name that includes "DT".

Sample Programs

The sample programs provided with Epson ePOS SDK for iOS are implementation samples of iOS applications.

Xcode iOS application projects that include the Objective-C source files are provided.



Xcode iOS application projects that include Swift source files are also provided with [ePOS2Printer](#).

Functionality

The sample programs provide the following functionality.

ePOS2Printer

- Printer search and specification
 - Specifies the connection type
 - Displays a list of search results.
 - Retrieves target information required for the connection selected from the search results.
- Sample receipt printing
- Sample coupon printing
- Printer status confirmation
 - Confirms the status of printers before printing.
 - When the printer is not capable of printing, the program generates a notification message of the possible causes and corresponding action of the error.
- Display of print results and printer status
 - Sends notification of the print result after printing.
 - Notifies the users of an API error that occurred while searching for printers, or during printing sample receipts or coupons.
- Log Output Settings
 - Enables log output to terminal storage when displaying the main screen.

ePOS2Discovery

- Filter Option settings
- Search of printers and POS peripheral devices
- Search initiation
- Display of search results
- Search completion
- Error notification
 - Notifies the users of an API error that occurred when starting a search, during searching, or in the process of completing a search.

ePOS2LineDisplay

- Display of the specified text on the customer display
- Error notification
 - When failed to connect to the customer display, notifies the user of the connection error.
 - Notifies the users of an API error that occurred while sending display data to the customer display.

ePOS2Keyboard

- Notification of result of establishing connection with TM intelligent printers
 - Connects to a keyboard specified in the source file when starting the application.
 - When failed to connect to the keyboard, notifies the user of the connection error.
- Display of text input with the keyboard in text boxes in the application
- Error notification
 - Notifies the users of an API error that occurred while entering text with the keyboard.

ePOS2BarcodeScanner

- Notification of result of establishing connection with TM intelligent printers
 - Connects to a barcode scanner specified in the source file when starting the application.
 - When failed to connect to the barcode scanner, notifies the user of the connection error.
- Display of data read by the barcode scanner in text boxes in the application
- Error notification
 - Notifies the users of an API error that occurred while reading data with the barcode scanner.

ePOS2SimpleSerial

- Notification of result of establishing connection with TM intelligent printers
 - Connects to a serial communication device specified in the source file when starting the application.
 - When failed to connect to the serial communication device, notifies the user of the connection error.
- Transmission of data specified by the application to the serial communication device.
- Display of response commands from the serial communication device in the application
- Error notification
 - Notifies the users of an API error that occurred while sending data to the serial communication device.

ePOS2CommBox

- ❑ Notification of result of establishing connection with TM intelligent printers
 - Connects to a communication box specified in the source file when starting the application.
 - When failed to connect to the communication box, notifies the user of the connection error.
- ❑ Transmission of messages to the member ID specified by the application
- ❑ Error notification
 - Notifies the users of an API error that occurred when sending a message.

ePOS2EasySelection

- ❑ Easy connection with a printer by using QR code
 - Acquires printer information from the QR code.
 - Opens the port by using the acquired printer information.
- ❑ Printing of a QR code that enables easy printer selection.
 - Creates a QR code that contains the printer information from the printer search result.

Use Environment

Refer to [Epson ePOS SDK for iOS Development Environment](#) and [Application Operating Environment](#).



Xcode 5.0.2 is used for creating the sample programs. Change the setting depending on your development environment.

Installation Procedure

- 1** Extract the sample programs from the zip file and store the extracted files at any desired location.
- 2** Double-click ePOS2_xxx.xcodeproj within the extracted files.
- 3** After starting Xcode, select **Scheme** as the target device.
- 4** Click **Run** in the upper-left.
- 5** The sample program is installed to the target device and the sample program starts up.

Application Guide

To search printers

```
Starts searching
Epos2FilterOption *filterOption = nil;
filterOption = [[Epos2FilterOption alloc] init];

filterOption.porttype = EPOS2_PORTTYPE_ALL;
filterOption.broadcast = @"255.255.255.255";
filterOption.deviceModel = EPOS2_MODEL_ALL;
filterOption.deviceType = EPOS2_TYPE_ALL;

Starts searching
result = [Epos2Discovery start:filterOption Delegate:self];
if (result != EPOS2_CODE_SUCCESS) {
    //Displays error messages
}

Notifies the detected devices
- (void) onDiscovery:(Epos2DeviceInfo *)deviceInfo
{
    //Display the detected device in the application software
}

Stops searching
- (void)stopDiscovery
{
    int result = EPOS2_SUCCESS;
    result = [Epos2Discovery stop];
    if (result != EPOS2_CODE_SUCCESS) {
        //Displays error messages
    }
}
```

To monitor continuously

```
When application starts
int result = EPOS2_SUCCESS;
Epos2Printer printer_ = nil
printer_ = [[Epos2Printer alloc] initWithPrinterModel:EPOS2_TM_T88
lang:EPOS2_MODEL_ANK];
[printer_ setStatusChangeEventDelegate:self]

result = [printer_ connect:@"TCP:192.168.192.168" timeout:EPOS2_PARAM_DEFAULT];

[printer_ setInterval:3000];

result = [printer_ startMonitor];
if (result != EPOS2_CODE_SUCCESS) {
    //Displays error messages
}

//Buffers the print data(addText..)
//Sends the print data (sendData)

//Buffers the print data(addText..)
//Sends the print data (sendData)

//Buffers the print data(addText..)
//Sends the print data (sendData)

When application closes
result = [printer_ stopMonitor];
if (result != EPOS2_CODE_SUCCESS) {
    //Displays error messages
}

result = [printer_ disconnect];
if (result != EPOS2_CODE_SUCCESS) {
    //Displays error messages
}
```

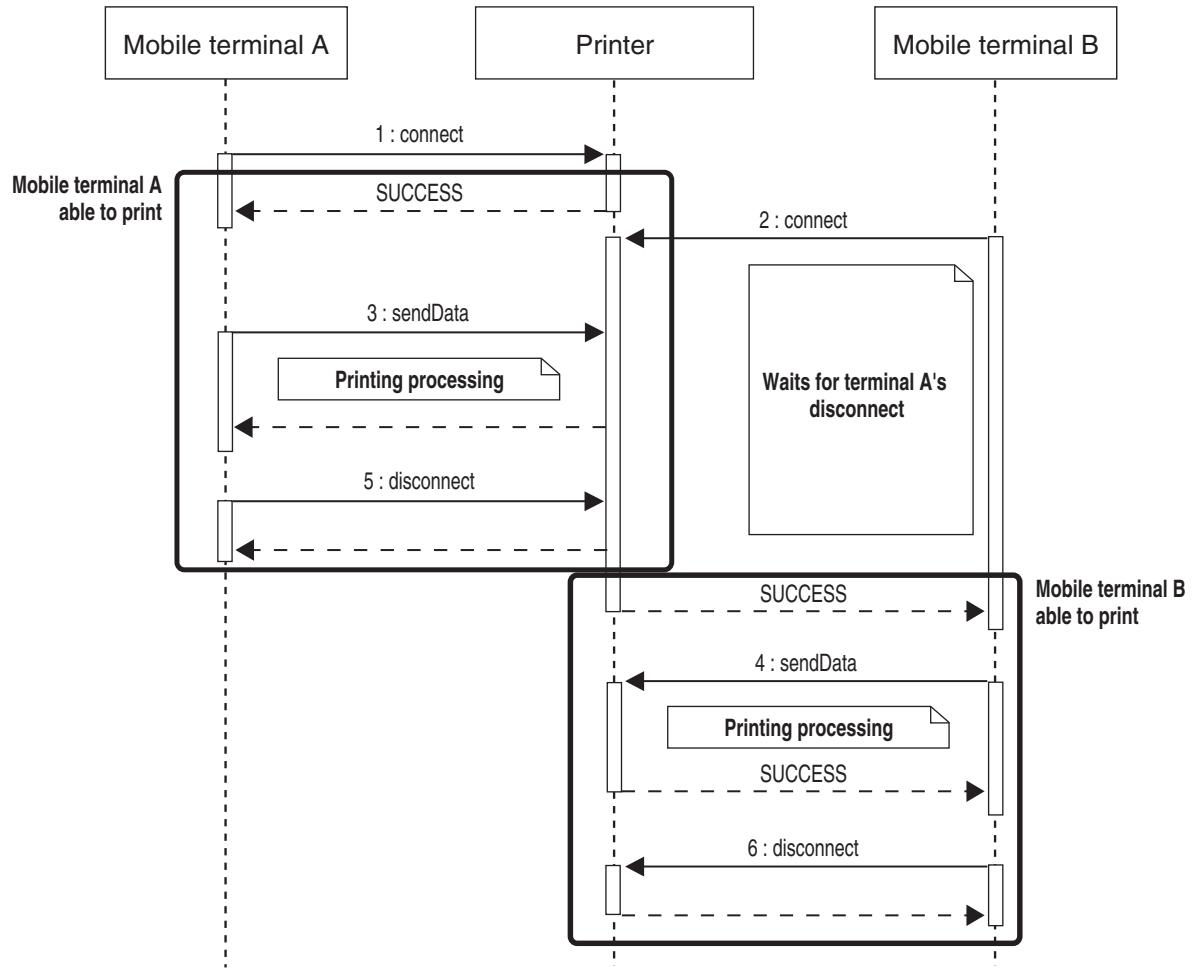
```
(void) onPtrStatusChange:(Epos2Printer *)PrinterObj EventType:(int)eventType
{
    switch (eventType) {
        case EPOS2_EVENT_ONLINE:
            break;
        case EPOS2_EVENT_OFFLINE:
            //Displays notification messages
            break;
        case EPOS2_EVENT_POWER_OFF:
            //Displays notification messages
            break;
        case EPOS2_EVENT_COVER_CLOSE:
            //Displays notification messages
            break;
        case EPOS2_EVENT_COVER_OPEN:
            //Displays notification messages
            break;
        case EPOS2_EVENT_PAPER_OK:
            //Displays notification messages
            break;
        case EPOS2_EVENT_PAPER_NEAR_END:
            //Displays notification messages
            break;
        case EPOS2_EVENT_PAPER_EMPTY:
            //Displays notification messages
            break;
        case EPOS2_EVENT_DRAWER_HIGH:
            //Displays notification messages
            break;
        case EPOS2_EVENT_DRAWER_LOW:
            //Displays notification messages
            break;
        case EPOS2_EVENT_BATTERY_ENOUGH:
            //Displays notification messages
            break;
        case EPOS2_EVENT_BATTERY_EMPTY:
            //Displays notification messages
            break;
        default:
            break;
    }
}
```



Refer to [Error Status and countermeasures](#) for the messages displayed on "Displays notification messages".

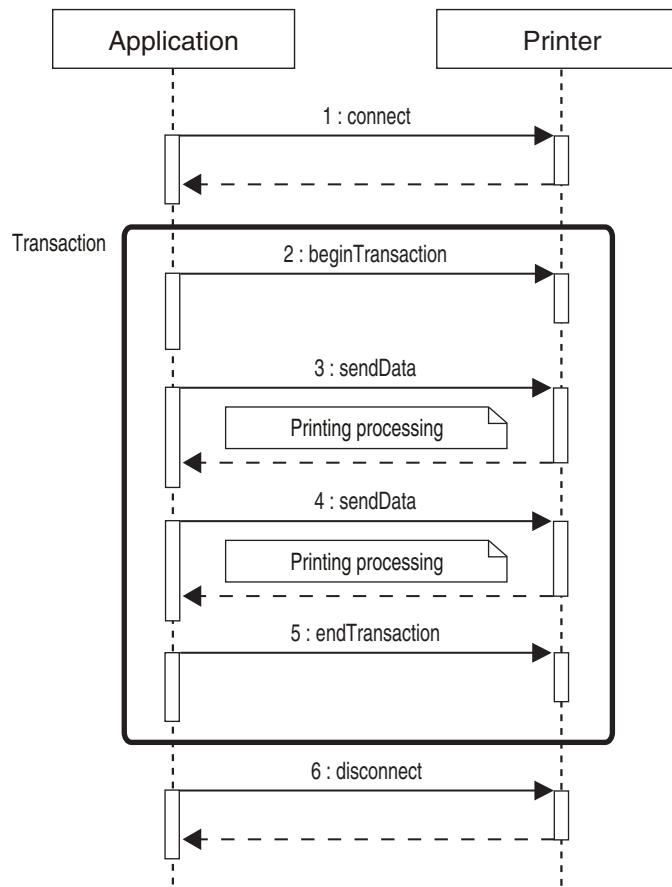
To use the same printer from multiple mobile devices

The following shows a processing flow when using a single printer from the mobile terminal A and B.



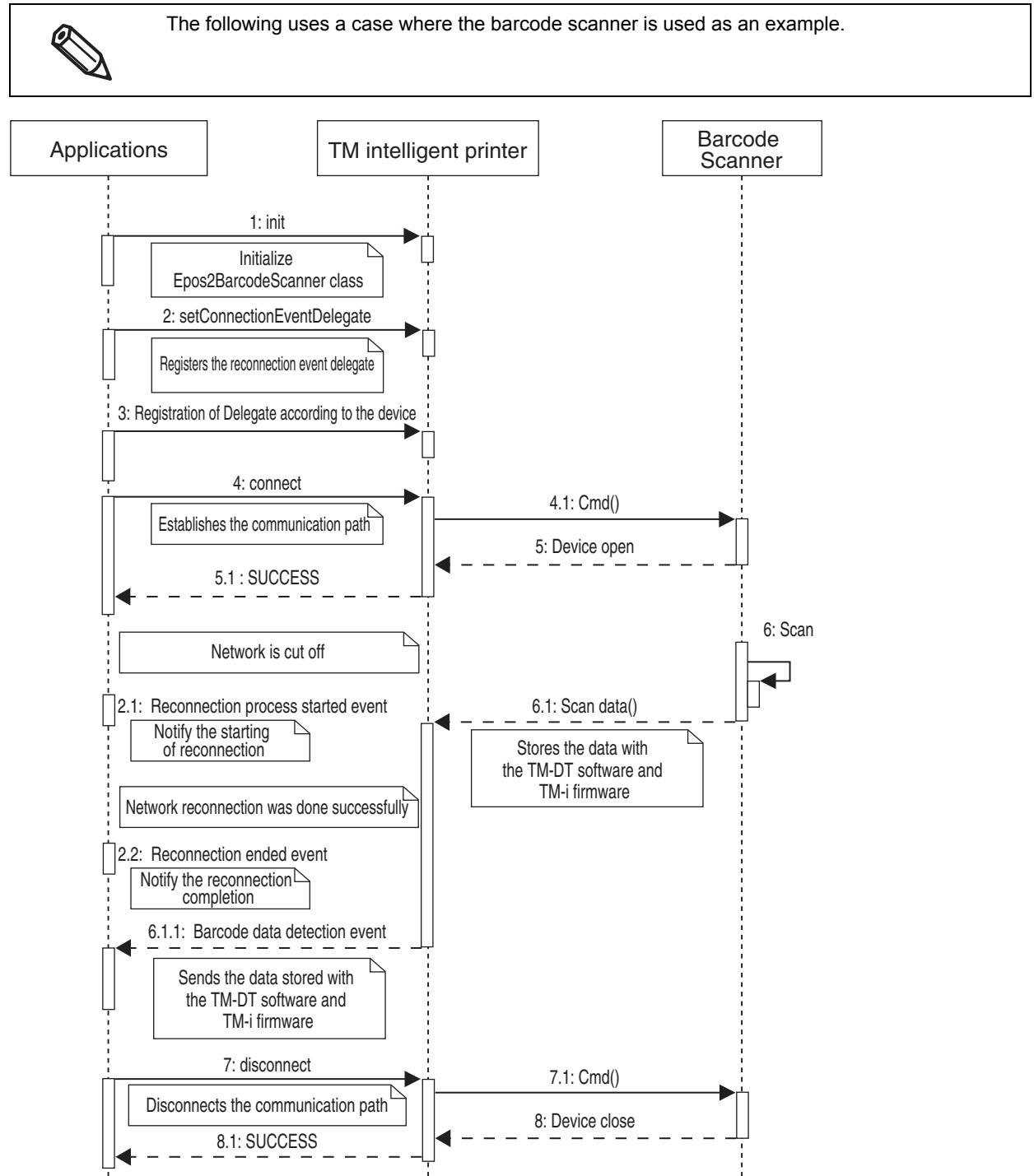
To specify a transaction

Put the set of print processing to be carried out consecutively (such as a single receipt or a single coupon) between `beginTransaction` and `endTransaction`.



To reconnect to the network automatically

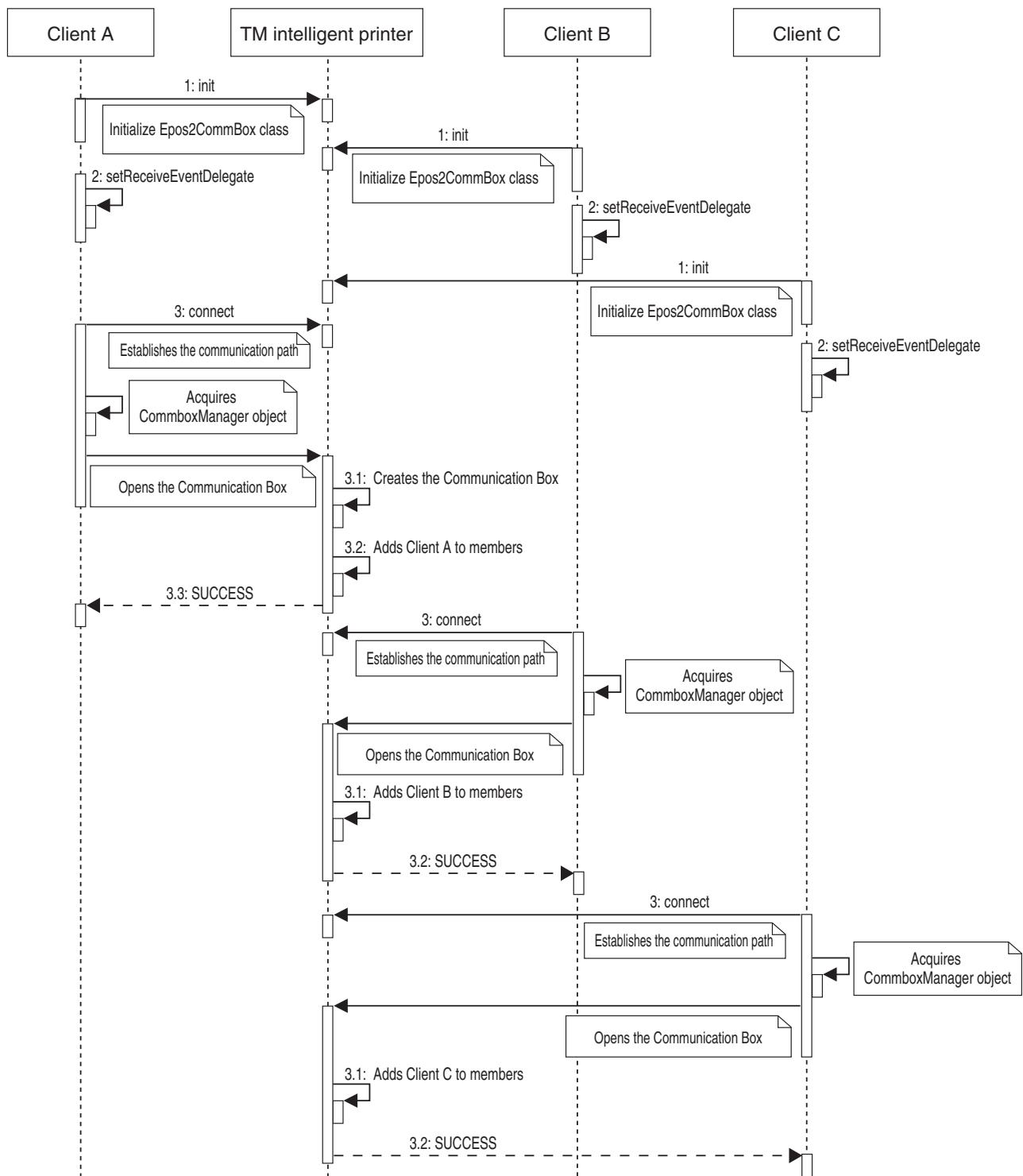
The following is a sequence for automatically reconnecting if network communication is cut off with the TM intelligent printer.

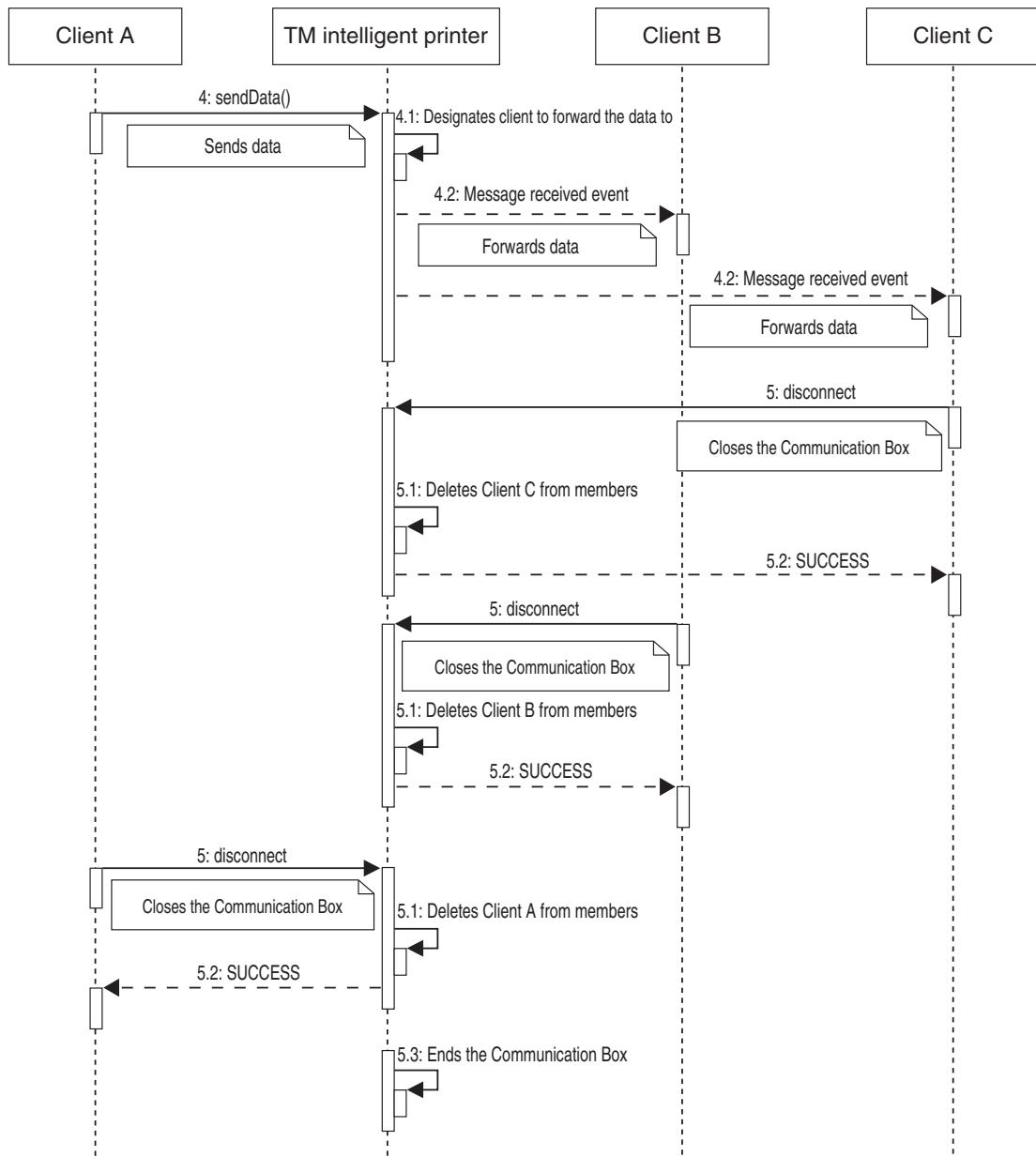


To transmit and receive the data between applications

Use the Communication Box function of the TM intelligent printer.

The following indicates the basic programming sequence using the Communication Box. A "Client" in the sequence figure refers to an application.

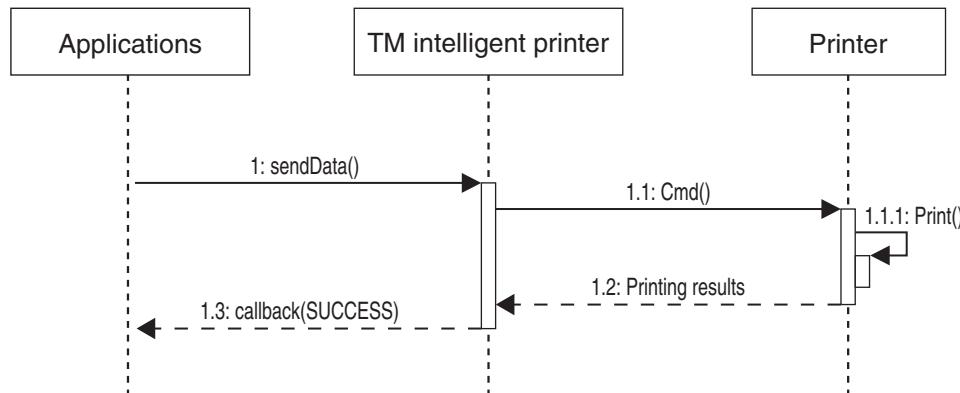




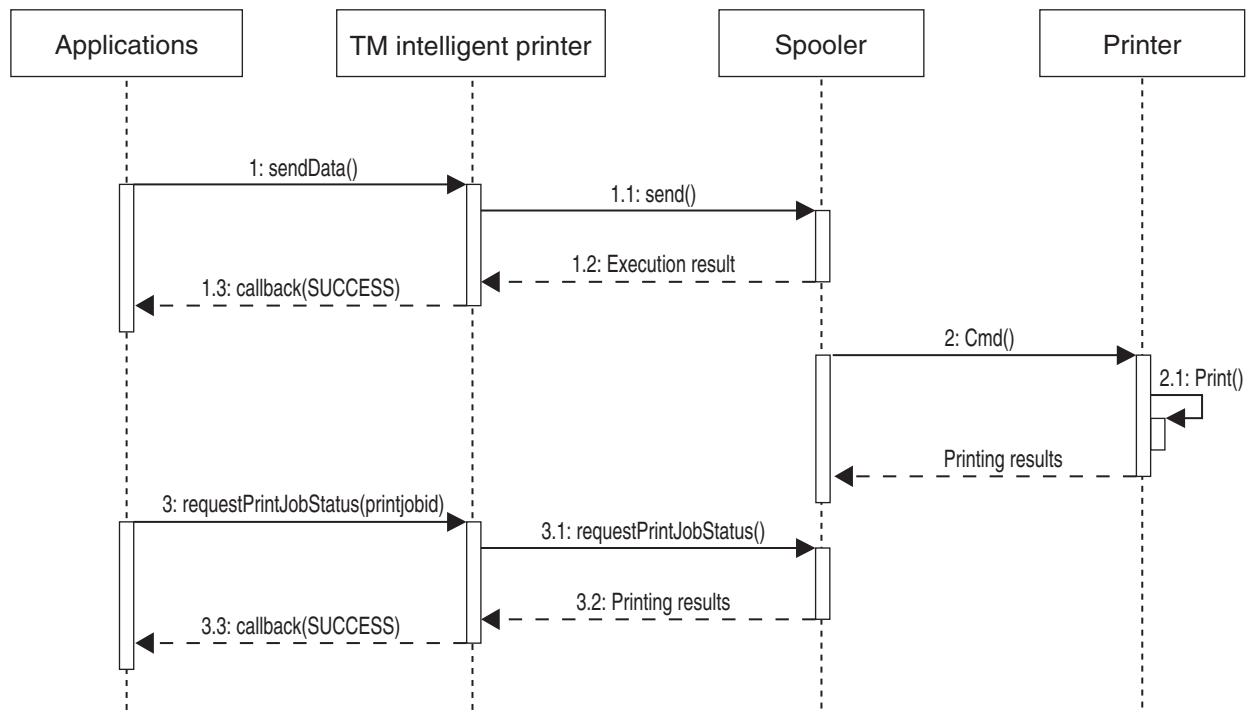
To perform forward printing

Use the spooler function of the TM intelligent printer. The spooler function and forward printing function are supported with TM-DT software version 3.0 or later, or TM-i firmware version 4.1 or later.

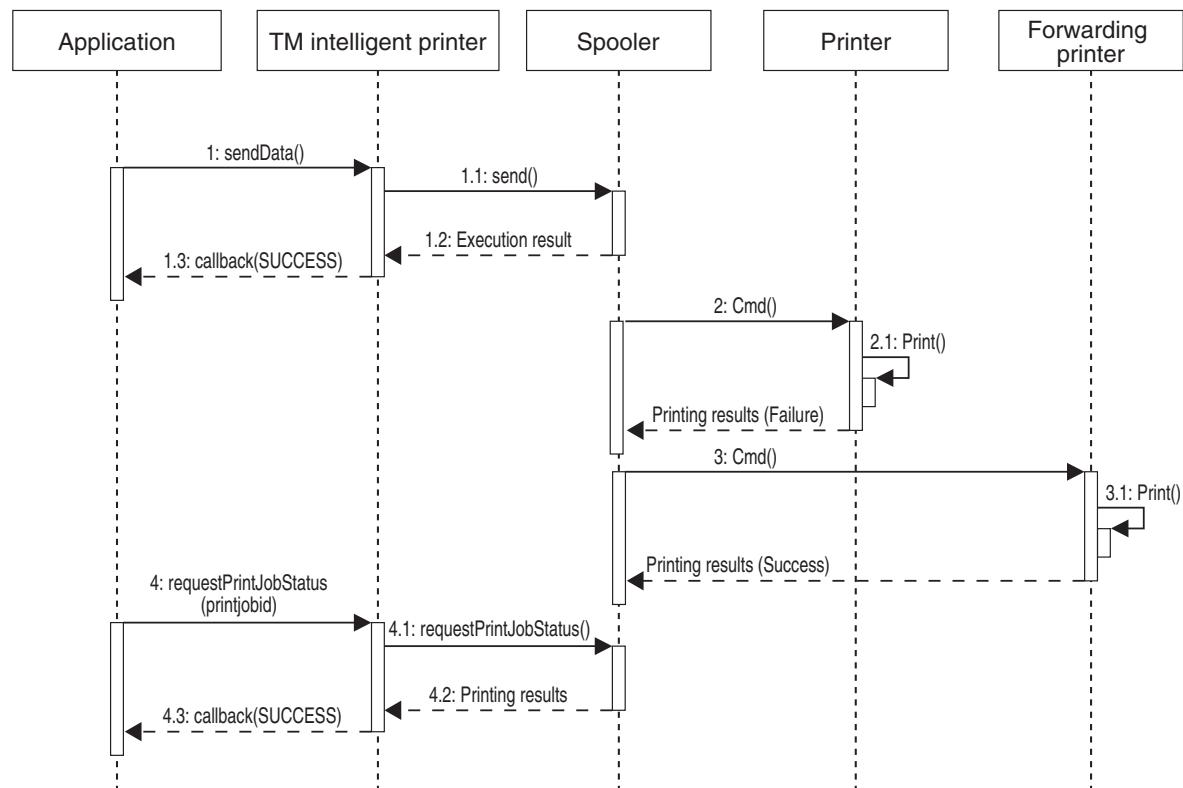
When disabling the spooler function, if a request is sent to the TM-DT software and TM-i firmware from the application, printing is done immediately and a response is returned to the application after print operation completes.



When enabling the spooler function, if a request is sent to the TM-DT software and TM-i firmware from the application, the print data is queued in line and a response is returned to the application before print operation completes.



At this point, if output destination printer cannot print, the TM-DT software and TM-i firmware do not return the error to the application. Enabling forward printing will allow for the printing task to be completed on a substitute printer, with the application acquiring the printing results afterward. Refer to the sequence diagram below.



To select a printer using its QR code

Analyze the QR code by using parseQR in the EasySelect class. Then, specify the analyzed information in the connect API to connect to the printer.

```

@interface Sample()
{
    Epos2Printer *printer_;
}

(BOOL) ConnectPrinterByQRCode
{
    // Analyzes QR code
    EposEasySelect* easySelect = [[EposEasySelect alloc] init];
    EposEasySelectInfo *easySelectInfo = [easySelect parseQR:result];

    if(!easySelectInfo){
        // If the QR code is not the one for easy printer selection.
        return NO;
    }

    // Converts printer name into PrinterSeries
    int printerSeries = [self
convertPrinterNameToPrinterSeries:easySelectInfo.printerName];

    // Initializes Epos2Printer
    printer_ = [[Epos2Printer alloc] initWithPrinterSeries:printerSeries
lang:EPOS2_MODEL_ANK];
    if(!printer_){
        return NO;
    }

    // Generates connect parameters
    NSString *targetText = [self convertEasySelectInfoToTargetString:easySelectInfo];
    if([targetText isEqualToString:@""]){
        return NO;
    }

    // Connects to the printer
    int result = [printer_ connect:targetText timeout:EPOS2_PARAM_DEFAULT];
    if(result != EPOS2_SUCCESS){
        return NO;
    }

    return YES;
}

```

```

- (int) convertPrinterNameToPrinterSeries:(NSString*)printerName
{
    int printerSeries = EPOS2_TM_T88;

    if([printerName isEqualToString:@"TM-T88V"]){
        printerSeries = EPOS2_TM_T88;
    }else if([printerName isEqualToString:@"TM-m10"]){
        printerSeries = EPOS2_TM_M10;
    }else if([printerName isEqualToString:@"TM-m30"]){
        printerSeries = EPOS2_TM_M30;
    }else if([printerName isEqualToString:@"TM-P20"]){
        printerSeries = EPOS2_TM_P20;
    }else if([printerName isEqualToString:@"TM-P60II"]){
        printerSeries = EPOS2_TM_P60II;
    }else if([printerName isEqualToString:@"TM-P80"]){
        printerSeries = EPOS2_TM_P80;
    }else{
        // Depending on the printer, add conversion processes.
    }

    return printerSeries;
}

- (NSString*) convertEasySelectInfoToString:(EposEasySelectInfo*)easySelectInfo
{
    NSString *connectionTypeString = @"";

    switch(easySelectInfo.deviceType){
        case EPOS_EASY_SELECT_DEVTYPE_TCP:
            connectionTypeString = @"TCP:";
            break;
        case EPOS_EASY_SELECT_DEVTYPE_BLUETOOTH:
            connectionTypeString = @"BT:";
            break;
    }

    return [NSString stringWithFormat:@"%@%@", connectionTypeString, easySelectInfo.macAddress];
}

```

How to print a QR code to be used for printer selection

For the printers that can print the QR code on a status sheet

Some printers can print the QR code on a status sheet. For more details, refer to the Technical Reference Guide of the printer.

For the printers that cannot print the QR code on a status sheet

Create the QR code by using createQR. Specify the created data by addSymbol to print the QR code. Refer to "Printing of a QR code that enables easy printer selection" of the sample program.

Appendix

Open Source Licensing

This product contains the following open-source libraries:

zlib

zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).