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## 1.Enum

### 1.1 PTCPCLPaperType

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLPaperType) {
    PTCPCLPaperContinuoue          = 0,  ///< continuous paper
    PTCPCLPaperLabel               = 1,  ///< label paper
    PTCPCLPaperBackBlackMark       = 2,  ///< back black mark
    PTCPCLPaperFrontBlackMark      = 3,  ///< front black mark
    PTCPCLPaperBlackMarkInch3      = 4,  ///< 3 inch black mark
    PTCPCLPaperBlackMarkInch2      = 5   ///< 2 inch black mark
};
```

### 1.2 PTCPCLNewPaperType

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLNewPaperType) {
    PTCPCLNewPaperContinuoue          = 0,  ///< continuous paper
    PTCPCLNewPaperLabel               = 2,  ///< label paper
    PTCPCLNewBlackMarkInch2          = 4,  ///< 2 inch black mark
    PTCPCLNewBlackMarkInch3          = 5,  ///< 3 inch black mark
    PTCPCLNewBlackMarkInch4          = 6   ///< 4 inch black mark
};
```

## 1.3 PTCPCLLabelResolution

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLLabelResolution) {
    PTCPCLLabelResolution100    = 100,  ///< 100
    PTCPCLLabelResolution200    = 200   ///< 200
};
```

## 1.4 PTCPCLBarcodeStyle

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLBarcodeStyle) {
    PTCPCLBarcodeStyleUPCA      = 0,
    PTCPCLBarcodeStyleUPCE      = 1,
    PTCPCLBarcodeStyleEAN13     = 2,
    PTCPCLBarcodeStyleEAN8      = 3,
    PTCPCLBarcodeStyleCode39     = 4,
    PTCPCLBarcodeStyleCode93     = 5,
    PTCPCLBarcodeStyleCode128    = 6,
    PTCPCLBarcodeStyleCodeBAR    = 7
};
```

## 1.5 PTCPCLBarcodeBarRatio

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLBarcodeBarRatio) {  
    PTCPCLBarcodeBarRatio0      = 0,  
    PTCPCLBarcodeBarRatio1      = 1,  
    PTCPCLBarcodeBarRatio2      = 2,  
    PTCPCLBarcodeBarRatio3      = 3,  
    PTCPCLBarcodeBarRatio4      = 4,  
    PTCPCLBarcodeBarRatio20     = 20,  
    PTCPCLBarcodeBarRatio21     = 21,  
    PTCPCLBarcodeBarRatio22     = 22,  
    PTCPCLBarcodeBarRatio23     = 23,  
    PTCPCLBarcodeBarRatio24     = 24,  
    PTCPCLBarcodeBarRatio25     = 25,  
    PTCPCLBarcodeBarRatio26     = 26,  
    PTCPCLBarcodeBarRatio27     = 27,  
    PTCPCLBarcodeBarRatio28     = 28,  
    PTCPCLBarcodeBarRatio29     = 29,  
    PTCPCLBarcodeBarRatio30     = 30  
};
```

## 1.6 PTCPCLQRCodeModel

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLQRCodeModel) {  
    PTCPCLQRCodeModel1      = 1,  
    PTCPCLQRCodeModel2      = 2    ///< default  
};
```

## 1.7 PTCPCLQRCodeUnitWidth

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLQRCodeUnitWidth) {  
    PTCPCLQRCodeUnitWidth_1 = 1,  
    PTCPCLQRCodeUnitWidth_2,  
    PTCPCLQRCodeUnitWidth_3,  
    PTCPCLQRCodeUnitWidth_4,  
    PTCPCLQRCodeUnitWidth_5,  
    PTCPCLQRCodeUnitWidth_6,           ///< default  
    PTCPCLQRCodeUnitWidth_7,  
    PTCPCLQRCodeUnitWidth_8,  
    PTCPCLQRCodeUnitWidth_9,  
    PTCPCLQRCodeUnitWidth_10,  
    PTCPCLQRCodeUnitWidth_11,  
    PTCPCLQRCodeUnitWidth_12,  
    PTCPCLQRCodeUnitWidth_13,  
    PTCPCLQRCodeUnitWidth_14,  
    PTCPCLQRCodeUnitWidth_15,  
    PTCPCLQRCodeUnitWidth_16,  
    PTCPCLQRCodeUnitWidth_17,  
    PTCPCLQRCodeUnitWidth_18,  
    PTCPCLQRCodeUnitWidth_19,  
    PTCPCLQRCodeUnitWidth_20,  
    PTCPCLQRCodeUnitWidth_21,  
    PTCPCLQRCodeUnitWidth_22,  
    PTCPCLQRCodeUnitWidth_23,  
    PTCPCLQRCodeUnitWidth_24,  
    PTCPCLQRCodeUnitWidth_25,  
    PTCPCLQRCodeUnitWidth_26,  
    PTCPCLQRCodeUnitWidth_27,  
    PTCPCLQRCodeUnitWidth_28,  
    PTCPCLQRCodeUnitWidth_29,  
    PTCPCLQRCodeUnitWidth_30,  
    PTCPCLQRCodeUnitWidth_31,  
};
```

```
PTCPCLQRCodeUnitWidth_32
};
```

## 1.8 PTCPCLQRCodeCorrectionLevel

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLQRCodeCorrectionLevel) {
    PTCPCLQRCodeCorrectionLevelH      = 0,  ///< Ultra high
    reliability level
    PTCPCLQRCodeCorrectionLevelQ      = 1,  ///< High reliability
    level
    PTCPCLQRCodeCorrectionLevelM      = 2,  ///< Standard level
    PTCPCLQRCodeCorrectionLevelL      = 3  ///< High density level
};
```

## 1.9 PTCPCLQRCodeDataInputMode

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLQRCodeDataInputMode) {
    PTCPCLQRCodeDataInputModeA      = 0,  ///< Automatic(default)
    PTCPCLQRCodeDataInputModeM      = 1  ///< manual(ignore it,pls
    select ModeA)
};
```

## 1.10 PTCPCLTextFontName

- Code

```

typedef NS_ENUM(NSUInteger, PTCPCLTextFontName) {
    PTCPCLTextFont0      = 0,  ///< khmer:12x24
    PTCPCLTextFont1      = 1,  ///< chinese:24x24    english:9x17
    PTCPCLTextFont2      = 2,  ///< chinese:24x24    english:12x24
    PTCPCLTextFont3      = 3,  ///< chinese:20x20    english:10x20
    PTCPCLTextFont4      = 4,  ///< chinese:32x32    english:16x32
    PTCPCLTextFont5      = 5,  ///< chinese:24x24    english:12x24
    PTCPCLTextFont7      = 7,  ///< chinese:24x24    english:12x24
    PTCPCLTextFont8      = 8,  ///< chinese:24x24    english:12x24
    PTCPCLTextFont20     = 20, ///< chinese:16x16    english:8x16
    PTCPCLTextFont28     = 28, ///< chinese:28x28    english:14x28
    PTCPCLTextFont55     = 55  ///< chinese:16x16    english:8x16
};


```

## 1.11 PTCPCLTextFontSize

- Code

```

typedef NS_ENUM(NSUInteger, PTCPCLTextFontSize) {
    PTCPCLTextFontSize0      = 0,  ///< scale-> width:1    height:1,
default
    PTCPCLTextFontSize1      = 1,  ///< scale-> width:1    height:2
    PTCPCLTextFontSize2      = 2,  ///< scale-> width:2    height:1
    PTCPCLTextFontSize3      = 3,  ///< scale-> width:2    height:2
    PTCPCLTextFontSize4      = 4,  ///< scale-> width:2    height:3
    PTCPCLTextFontSize5      = 5,  ///< scale-> width:3    height:2
    PTCPCLTextFontSize6      = 6,  ///< scale-> width:3    height:3
    PTCPCLTextFontSize7      = 7,  ///< scale-> width:3    height:4
};


```

## 1.12 PTCPCLScaledFontName

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLScaledFontName) {  
    PTCPCLScaledFontNameTTF      = 0,      /// default  
    PTCPCLScaledFontNameCSF      = 1,  
    PTCPCLScaledFontNameFNT      = 2  
};
```

## 1.13 PTCPCLFontGroupNumber

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLFontGroupNumber) {  
    PTCPCLFontGroupNumber0      = 0,  
    PTCPCLFontGroupNumber1      = 1,  
    PTCPCLFontGroupNumber2      = 2,  
    PTCPCLFontGroupNumber3      = 3,  
    PTCPCLFontGroupNumber4      = 4,  
    PTCPCLFontGroupNumber5      = 5,  
    PTCPCLFontGroupNumber6      = 6,  
    PTCPCLFontGroupNumber7      = 7,  
    PTCPCLFontGroupNumber8      = 8,  
    PTCPCLFontGroupNumber9      = 9,  
    PTCPCLFontGroupNumber10     = 10  
};
```

## 1.14 PTCPCLTextBold

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLTextBold) {
    PTCPCLTextBold0      = 0, //< default,not bold
    PTCPCLTextBold1      = 1,
    PTCPCLTextBold2      = 2,
    PTCPCLTextBold3      = 3,
    PTCPCLTextBold4      = 4,
    PTCPCLTextBold5      = 5
};
```

## 1.15 PTCPCLStyleRotation

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLStyleRotation) {
    PTCPCLStyleRotation0      = 0,      //< Counterclockwise
    rotation,default
    PTCPCLStyleRotation90      = 90,     //< Counterclockwise rotation
    90
    PTCPCLStyleRotation180     = 180,    //< Counterclockwise rotation
    180
    PTCPCLStyleRotation270     = 270,    //< Counterclockwise rotation
    270
};
```

## 1.16 PTCPCLFontSize

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLFontSize) {
    PTCPCLFontSize_1      = 1,
    PTCPCLFontSize_2,
    PTCPCLFontSize_3,
    PTCPCLFontSize_4,
    PTCPCLFontSize_5,
    PTCPCLFontSize_6,
    PTCPCLFontSize_7,
```

```
    PTCPCLFontSize_8,
    PTCPCLFontSize_9,
    PTCPCLFontSize_10,
    PTCPCLFontSize_11,
    PTCPCLFontSize_12,
    PTCPCLFontSize_13,
    PTCPCLFontSize_14,
    PTCPCLFontSize_15,
    PTCPCLFontSize_16
};
```

## 1.17 PTCPCLTextLineFontSize

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLTextLineFontSize) {
    PTCPCLTextLineFontSize0      = 0,      ///
```

## 1.18 PTCPCLPDF417ErrLevel

- Code

```
typedef NS_ENUM(NSUInteger, PTCPCLPDF417ErrLevel) {
    PTCPCLPDF417ErrLevel_0      = 0,
    PTCPCLPDF417ErrLevel_1      = 1,      //default
    PTCPCLPDF417ErrLevel_2,
    PTCPCLPDF417ErrLevel_3,
    PTCPCLPDF417ErrLevel_4,
    PTCPCLPDF417ErrLevel_5,
    PTCPCLPDF417ErrLevel_6,
    PTCPCLPDF417ErrLevel_7,
    PTCPCLPDF417ErrLevel_8
};
```

## 1.19 PTCPDF417Direction

- Code

```
typedef NS_ENUM(NSUInteger, PTCPDF417Direction) {  
    PTCPDF417DirectionH = 0,     ///< horizontal  
    PTCPDF417DirectionV = 1,     ///< vertical  
};
```

## 1.20 PTCPDF417Binary

- Code

```
typedef NS_ENUM(NSUInteger, PTCPDF417Binary) {  
    PTCPDF417BinaryA = 0,     ///< automatic  
    PTCPDF417BinaryF = 1,     ///< forced  
};
```

## 1.21 PTCRFIDMemory

- Code

```
typedef NS_ENUM(NSUInteger, PTCRFIDMemory) {  
    PTCRFIDMemoryReserved = 0,  
    PTCRFIDMemoryEPC = 1,  
    PTCRFIDMemoryTID = 2,  
    PTCRFIDMemoryUser = 3  
};
```

- Specification

Enum Name	Enum Value	Description
PTCPCLRFIDMemoryReserved	0	Reserved, Usually no more than 8 bytes(BeginAddr * 2 + Bytes < 8, same below)
PTCPCLRFIDMemoryEPC	1	EPC, Usually no more than 16 bytes(The starting address starts at 2)
PTCPCLRFIDMemoryTID	2	TID, Usually no more than 128 bytes, Unwritable data
PTCPCLRFIDMemoryUser	3	User, Usually no more than 128 bytes

## 2.Property

### 2.1 cmdData

- Code

```
@property (nonatomic, strong) NSMutableData * _Nonnull cmdData;
```

- Specification

| Data sent to the printer.

### 2.2 isZTO

- Code

```
@property (nonatomic, assign) BOOL isZTO;
```

- Specification

| Whether ZTO invoke,default is NO, This parameter only applies to the firmware of ZTO

## 2.3 encoding

- Code

```
@property (nonatomic, assign) NSStringEncoding encoding;
```

- Specification

encode, default is GBK.

## 3.Method

### 3.1 append command.

- Description

append command.

- Paramater

Paramater	Description
cmd	command text. encode with encoding property.

- Code

```
- (void)appendCommand:(NSString * _Nonnull)cmd;
```

### 3.2 append command.

- Description

append command.

- Paramater

Paramater	Description
cmd	command data.

- Code

```
- (void)appendCommandData:(NSData * _Nonnull)data;
```

### 3.3 selfTest.

- Description

selfTest.

- Code

```
- (void)printSelfInspectionPage;
```

### 3.4 firmware version.

- Description

firmware version.

- Code

```
- (void)getFirmwareVersion;
```

### 3.5 Turn on/off print status callback.

- Description

Turn on/off print status callback, the state of printer completion can be obtained by calling the printStateBlock interface.

- Code

```
- (void)cpclTurnOnPrintStatusCallBack:(BOOL)flag;
```

### 3.6 Turn on underline.

- Description

Turn on underline.

- Code

```
- (void)cpclUnderlineON;
```

### 3.7 Turn off underline.

- Description

Turn off underline.

- Code

```
- (void)cpclUnderlineOFF;
```

### 3.8 start label session.

- Description

start label session.

- Parameter

Paramater	Description
offset	The number of units to offset all fields from the left side of the label horizontally. 0-65535
hRes	The horizontal resolution of this label, expressed in dots per inch. 100 or 200
vRes	The vertical resolution of this label, expressed in dots per inch. 100 or 200
height	The height of the label in units. 0-65535
quantity	The number of copies of the label to print. 0-1024

- Code

```
- (void)cpclLabelWithOffset:(NSInteger)offset
                      hRes:(PTCPCLLabelResolution)hRes
                      vRes:(PTCPCLLabelResolution)vRes
                      height:(NSInteger)height
                     quantity:(NSInteger)quantity;
```

### 3.9 used to specify the width a label session.

- Description

used to specify the width a label session, Set the width you want to print.

- Paramater

Paramater	Description
pageWidth	width of a label session in dots.

- Code

```
- (void)cpclPageWidth:(NSInteger)pageWidth;
```

## 3.10 horizontal barcode.

- Description

horizontal barcode.

- Paramater

Paramater	Description
type	The type of barcode to print. UPCA/UPCE/EAN13/EAN8/39/93/128/CODABAR
width	The width of a narrow bar.
ratio	The ratio of wide to narrow bars. 0-4, 20-30
height	The height of the barcode.
x	The X position where the barcode begins
y	The Y position where the barcode begins
barcode	The data to be encoded into a barcode

- Code

```
- (void)cpclBarcode:(PTCPCLBarcodeStyle)type
              width:(NSInteger)width
              ratio:(PTCPCLBarcodeBarRatio)ratio
              height:(NSInteger)height
                 x:(NSInteger)x
                 y:(NSInteger)y
              barcode:(NSString * _Nonnull)barcode;
```

## 3.11 vertical barcode.

- Description

vertical barcode.

- Paramater

Paramater	Description
type	The type of barcode to print.
width	The width of a narrow bar.
ratio	The ratio of wide to narrow bars. 0-4, 20-30
height	The height of the barcode.
x	The X position where the barcode begins
y	The Y position where the barcode begins
barcode	The data to be encoded into a barcode

- Code

```
- (void)cpclBarcodeVertical:(PTCPCLBarcodeStyle)type
    width:(NSInteger)width
    ratio:(PTCPCLBarcodeBarRatio)ratio
    height:(NSInteger)height
    x:(NSInteger)x
    y:(NSInteger)y
    barcode:(NSString * _Nonnull)barcode;
```

### 3.12 Specify the barcode below the text format

- Description

used to specify if a human-readable text representation of barcode data should be printed below 1D barcodes.

- Paramater

Paramater	Description
font	A font name or number to create the representation
fontSize	The size of the font: 0-999
offset	How far in units the text is from the barcode:0-999

- Code

```
- (void)cpclBarcodeTextWithFont:(PTCPCLTextFontName)font
                           fontSize:(NSInteger)fontSize
                            offset:(NSInteger)offset;
```

### 3.13 Specify the barcode below the text format

- Description

used to specify if a human-readable text representation of barcode data should be printed below 1D barcodes.

- Paramater

Paramater	Description
font	The filename of the TTF font with extension.
xScale	The X size of the font, in dots: 0-999.
yScale	The Y size of the font, in dots: 0-999.
offset	How far in units the text is from the barcode:0-999.

- Code

```
- (void)cpclBarcodeTextWithTrueTypeFont:(PTCPCLTextFontName)font
                           xScale:(NSInteger)xScale
                           yScale:(NSInteger)yScale
                            offset:(NSInteger)offset;
```

### 3.14 turn off the addition of the text representation.

- Description

turn off the addition of the text representation.

- Code

```
- (void)cpclBarcodeTextOff;
```

### 3.15 horizontal QR barcode.

- Description

horizontal QR barcode.

- Paramater

Paramater	Description
xPos	The X position where the barcode begins
yPos	The Y position where the barcode begins
model	Specifies the model of QR code to print.1 or 2
unitWidth	Unit-width of the barcode in dots. 1-32,default: 6.

- Code

```
- (void)cpclBarcodeQRcodeWithXPos:(NSInteger)xPos  
                           yPos:(NSInteger)yPos  
                           model:(PTCPCLQRCodeModel)model  
                           unitWidth:(PTCPCLQRCodeUnitWidth)unitWidth;
```

### 3.16 vertical QR barcode.

- Description

vertical QR barcode.

- Paramater

Paramater	Description
xPos	The X position where the barcode begins
yPos	The Y position where the barcode begins
model	Specifies the model of QR code to print.1 or 2
unitWidth	Unit-width of the barcode in dots. 1-32,default: 6.

- Code

```
- (void)cpclBarcodeVerticalQRcodeWithXPos:(NSInteger)xPos
                                      yPos:(NSInteger)yPos
                                      model:(PTCPCLQRCodeModel)model
                                      unitWidth:
(PTCPCLQRCodeUnitWidth)unitWidth;
```

### 3.17 QR Data.

- Description

QR Data.

- Paramater

Paramater	Description
level	Error Correction
characterMode	Data Input Mode
context	Data for barcode

- Code

```
- (void)cpclBarcodeQRCodeCorrectionLecel:
(PTCPCLQRCodeCorrectionLevel)level characterMode:
(PTCPCLQRCodeDataInputMode)characterMode context:(NSString
*_Nonnull)context;
```

### 3.18 The QR code terminator.

- Description

    | The QR code terminator.

- Code

```
- (void)cpclBarcodeQRcodeEnd;
```

### 3.19 Config PDF417 parameters

- Description

    | Config PDF417 parameters

- Paramater

Paramater	Description
directon	horizontal or vertical
xPos	The X position where the barcode begins (0 to 65535 units)
yPos	The Y position where the barcode begins (0 to 65535 units)
xDot	The X size of a single element in dots,the default value is 2 (0 to 65535)
yDot	The Y size of a single element in dots,the default value is 6(0 to 65535)
columns	Specifies the number of columns to use,the default value is 3 (1 to 30)
rows	Specifies the number of rows to use,the default value is 0 (0 to 90)
ecc	Specifies the error recovery level,the default value is 1 (0 to 8)
binaryModel	Force binary compaction mode,the default value is 0 (0 or 1)

- Code

```
- (void)cpclPDF417CodeWithDirection:(PTCPCLPDF417Direction)direction
                                xPos:(NSInteger)xPos
                                yPos:(NSInteger)yPos
                                xDot:(NSInteger)xDot
                                yDot:(NSInteger)yDot
                                columns:(NSInteger)columns
                                rows:(NSInteger)rows
                                ecc:(PTCPCLPDF417ErrLevel)ecc
                                binaryModel:(PTCPCLPDF417Binary)binaryModel;
```

## 3.20 PDF417 Data.

- Description

PDF417 Data.

- Paramater

Paramater	Description
context	data

- Code

```
- (void)cpclPDF417CodeAddContext:(NSString *_Nullable)context;
```

## 3.21 The PDF417 code terminator.

- Description

The PDF417 code terminator.

- Code

```
- (void)cpclPDF417codeEnd;
```

## 3.22 draw box.

- Description

draw box.

- Paramater

Paramater	Description
xPos	The X origin of the box.(0~65535)
yPos	The Y origin of the box.(0~65535)
xEnd	The X coordinate where the box ends.(0~65535)
yEnd	The Y coordinate where the box ends.(0~65535)
thickness	The thickness of the lines in the box.(0~65535)

- Code

```
- (void)cpclBoxWithXPos:(NSInteger)xPos
                    yPos:(NSInteger)yPos
                   xEnd:(NSInteger)xEnd
                   yEnd:(NSInteger)yEnd
                  thickness:(NSInteger)thickness;
```

## 3.23 draw line.

- Description

draw line.

- Paramater

Paramater	Description
xPos	The X origin of the line.
yPos	The Y origin of the line.
xEnd	The X coordinate where the line ends.
yEnd	The Y coordinate where the line ends.
thickness	The thickness of the line.

- Code

```
- (void)cpcLineWithXPos:(NSInteger)xPos
                     yPos:(NSInteger)yPos
                     xEnd:(NSInteger)xEnd
                     yEnd:(NSInteger)yEnd
                     thickness:(NSInteger)thickness;
```

### 3.24 draw inverse line.

- Description

draw inverse line.

- Paramater

Paramater	Description
xPos	The X origin of the box.(0~65535)
yPos	The Y origin of the box.(0~65535)
xEnd	The X coordinate where the box ends.(0~65535)
yEnd	The Y coordinate where the box ends.(0~65535)
thickness	The thickness of the lines in the box.(0~65535)

- Code

```
- (void)cpclInverseLineWithXPos:(NSInteger)xPos
                           yPos:(NSInteger)yPos
                           xEnd:(NSInteger)xEnd
                           yEnd:(NSInteger)yEnd
                           thickness:(NSInteger)thickness;
```

### 3.25 set print color

- Description

- set print color

- Paramater

Paramater	Description
color	print color, 0=>red, 1=>black

- Code

```
- (void)cpclSetPrintColor:(NSInteger)color;
```

### 3.26 Print Image

- Description

- Print Image

- Paramater

Paramater	Description
Xpos	Horizontal starting position.
Ypos	Vertical starting position.
image	Print image
bitmapMode	Bitmap type
compress	The type of compression supported by the printer
isPackage	Whether the pictures need to be subcontracted

- Code

```
- (void)cpclPrintBitmapWithXPos:(NSInteger)xPos
                           yPos:(NSInteger)yPos
                           image:(CGImageRef _Nullable )image
                     bitmapMode:(PTBitmapMode)bitmapMode
                     compress:(PTBitmapCompressMode)compress
                   isPackage:(BOOL)isPackage;
```

### 3.27 Print Image

- Description

Print Image

- Paramater

Paramater	Description
Xpos	Horizontal starting position.
Ypos	Vertical starting position.
base64String	base64 string
bitmapMode	Bitmap type
compress	The type of compression supported by the printer
isPackage	Whether the pictures need to be subcontracted

- Code

```
- (BOOL)cpclPrintBitmapWithXPos:(NSInteger)xPos
                           yPos:(NSInteger)yPos
                     base64String:(NSString *_Nullable)base64String
                     bitmapMode:(PTBitmapMode)bitmapMode
                     compress:(PTBitmapCompressMode)compress
                   isPackage:(BOOL)isPackage;
```

### 3.28 Horizontal text series

- Description

concatenate multiple fonts and sizes of text on to a single line, and to align their top-lines in a specific way.

- Paramater

Paramater	Description
xPos	The X origin of the text string.
yPos	The Y origin of the text string.

- Code

```
- (void)cpclConcatStartWithXPos:(NSInteger)xPos yPos:
  (NSInteger)yPos;
```

### 3.29 Vertical text series.

- Description

concatenate multiple fonts and sizes of text on to a single line, and to align their top-lines in a specific way.

- Paramater

Paramater	Description
xPos	The X origin of the text string.
yPos	The Y origin of the text string.

- Code

```
- (void)cpclConcatVerticalStartWithXPos:(NSInteger)xPos yPos:(NSInteger)yPos;
```

### 3.30 concat text.

- Description

concat text.

- Paramater

Paramater	Description
font	font.
fontSize	font size.
offset	How far from Y is the top of this text.
text	The text data to be concatenated.

- Code

```
- (void)cpclConcatTextWithFont:(PTCPCLTextFontName)font
                           fontSize:(NSInteger)fontSize
                           offset:(NSInteger)offset
                          text:(NSString * _Nonnull)text;
```

### 3.31 concat scaled text.

- Description

concat scaled text.

- Paramater

Paramater	Description
scaledFont	A scaled font used to create the text.
xScale	The X size of the scaled font, in points.
yScale	The Y size of the scaled font, in points.
offset	offset How far from Y is the top of this text.
text	The text data to be concatenated.

- Code

```
- (void)cpclConcatScaleTextWithScaledFont:(NSInteger)scaledFont
                                    xScale:(NSInteger)xScale
                                    yScale:(NSInteger)yScale
                                    offset:(NSInteger)offset
                               text:(NSString * _Nonnull)text;
```

### 3.32 concat scaled Vertical text.

- Description

concat scaled Vertical text.

- Paramater

Paramater	Description
scaledFont	A scaled font used to create the text.
xScale	The X size of the scaled font, in points.
yScale	The Y size of the scaled font, in points.
offset	offset How far from Y is the top of this text.
text	The text data to be concatenated.

- Code

```

- (void)cpclConcatVerticalScaleTextWithScaledFont:
(NSInteger)scaledFont
                                         xScale:(NSInteger)xScale
                                         yScale:(NSInteger)yScale
                                         offset:(NSInteger)offset
                                         text:(NSString *)
                                         _Nonnull)text;

```

### 3.33 concat font group.

- Description

- concat font group.

- Paramater

Paramater	Description
fontGroup	Font group number.(0-10)
offset	offset How far from Y is the top of this text.
text	The text data to be concatenated.

- Code

```

- (void)cpclConcatTextWithFontGroup:(PTCPCLFontGroupNumber)fontGroup
                                offset:(NSInteger)offset
                                text:(NSString *) _Nonnull)text;

```

### 3.34 terminate concat command.

- Description

- terminate concat command.

- Code

```

- (void)cpclConcatEnd;

```

### 3.35 The tag end of the session

- Description

terminate a CPCL label session, and create the resulting print out.

- Code

```
- (void)cpclPrint;
```

### 3.36 Reverse print

- Description

Reverse print, Rotate the label 180.

- Code

```
- (void)cpclPoPrint;
```

### 3.37 center justification.

- Description

center justification.

- Paramater

Paramater	Description
range	The width of the area to center on from the left side.

- Code

```
- (void)cpclCenterWithRange:(NSInteger)range;
```

### 3.38 center justification.

- Description

center justification.

- Code

```
- (void)cpclCenter;
```

### 3.39 left justification.

- Description

left justification.

- Paramater

Paramater	Description
range	When used with LEFT, the only function Range performs is a field specification function for FONT-GROUP.

- Code

```
- (void)cpclLeft:(NSInteger)range;
```

### 3.40 left justification.

- Description

left justification.

- Code

```
- (void)cpclLeft;
```

### 3.41 right justification.

- Description

right justification.

- Paramater

Paramater	Description
right	the location of the right side to justify to.

- Code

```
- (void)cpclRight:(NSInteger)right;
```

### 3.42 right justification.

- Description

right justification.

- Code

```
- (void)cpclRight;
```

### 3.43 Start multiline text printing.

- Description

print a number of lines of text using the same font without having to manually specify the spacing or positioning of each line.

- Paramater

Paramater	Description
lineHeight	Spacing between each line in units.

- Code

```
- (void)cpclMultiLineStartWithLineHeight:(NSInteger)lineHeight;
```

### 3.44 terminated multi line command.

- Description

- terminated multi line command.

- Code

```
- (void)cpclMultiLineEnd;
```

### 3.45 specify the rotation of a scalable or TrueType font within the printer.

- Description

- specify the rotation of a scalable or TrueType font within the printer.

- Paramater

Paramater	Description
degrees	The number of degrees to rotate counter-clockwise.

- Code

```
- (void)cpclRotate:(NSInteger)degrees;
```

### 3.46 print scaled text in CPCL from either a scaled or TrueType font.

- Description

- print Vector Fonts text

- Paramater

Paramater	Description
fontName	font name eg: SIMSUN.TTF \TT0003M_.TTF
xScale	The X size of the scaled font, in points.
yScale	The Y size of the scaled font, in points.
x	The X origin of the scaled text in units.
y	The Y origin of the scaled text in units.
text	The text data to be printed.

- Code

```
- (void)cpclTrueTypeText:(NSString * _Nullable)fontName xScale:
(NSInteger)xScale yScale:(NSInteger)yScale x:(NSInteger)x y:
(NSInteger)y text:(NSString * _Nonnull)text;
```

### 3.47 print scaled text in CPCL from either a scaled

- Description

print scaled text in CPCL from either a scaled or TrueType font.

- Paramater

Paramater	Description
scaledFont	A scaled font used to create the text.
xScale	The X size of the scaled font, in points.
yScale	The Y size of the scaled font, in points.
x	The X origin of the scaled text in units.
y	The Y origin of the scaled text in units.
text	The text data to be printed.

- Code

```

- (void)cpclScaleText:(PTCPCLScaledFontName)scaledFont
    xScale:(NSInteger)xScale
    yScale:(NSInteger)yScale
    x:(NSInteger)x
    y:(NSInteger)y
    text:(NSString * _Nonnull)text;

```

### 3.48 print scaled text in CPCL from either a scaled

- Description

print scaled text in CPCL from either a scaled or TrueType font. rotated 90 degrees.

- Paramater

Paramater	Description
scaledFont	A scaled font used to create the text.
xScale	The X size of the scaled font, in points.
yScale	The Y size of the scaled font, in points.
x	The X origin of the scaled text in units.
y	The Y origin of the scaled text in units.
text	The text data to be printed.

- Code

```

- (void)cpclScaleTextVertical:(PTCPCLScaledFontName)scaledFont
    xScale:(NSInteger)xScale
    yScale:(NSInteger)yScale
    x:(NSInteger)x
    y:(NSInteger)y
    text:(NSString * _Nonnull)text;

```

### 3.49 print scaled text which is to fit within a particular bounding box

- Description

print scaled text which is to fit within a particular bounding box. It can be used with TrueType or scaled fonts.

- Paramater

Paramater	Description
scaledFont	A scaled font used to create the text.
width	The width of the box to contain the text.
height	The height of the box to contain the text.
x	The X origin of the scaled text in units.
y	The Y origin of the scaled text in units.
text	The text data to be printed.

- Code

```
- (void)cpclScaleToFit:(PTCPCLScaledFontName)scaledFont
                  width:(NSInteger)width
                  height:(NSInteger)height
                     x:(NSInteger)x
                     y:(NSInteger)y
                  text:(NSString * _Nonnull)text;
```

### 3.50 add a faux bolding effect to pre-scaled fonts.

- Description

add a faux bolding effect to pre-scaled fonts.

- Paramater

Paramater	Description
boldness	the boldness of the text.

- Code

```
- (void)cpclSetBold:(PTCPCLTextBold)boldness;
```

### 3.51 set the horizontal spacing between characters.

- Description

set the horizontal spacing between characters.

- Paramater

Paramater	Description
spacing	the spacing between characters of a font.

- Code

```
- (void)cpclSetSpacing:(NSInteger)spacing;
```

### 3.52 set the output scaling of pre-scaled fonts

- Description

set the output scaling of pre-scaled fonts

- Paramater

Paramater	Description
width	the width multiplier of the font, 1-16.
height	the height multiplier of the font, 1-16.

- Code

```
- (void)cpclSetMagWithWidth:(PTCPCLFontSize)width height:(PTCPCLFontSize)height;
```

### 3.53 print text that feed line automatically.

- Description

- print text that feed line automatically.

- Paramater

Paramater	Description
rotate	text rotate.
font	text font.
fontSize	text font scale, deault is 0, other values are invalid
x	orgin x of text.
y	origin y of text.
safeHeight	height of text field.Part will not print more than height
width	width of text field.if width is 0,not auto line
lineSpacing	line space.
fontScale	Font magnification factor
text	text.

- Code

```
- (NSInteger)cpclAutoTextWithRotate:(PTCPCLStyleRotation)rotate
                           font:(PTCPCLTextFontName)font
                          fontSize:(NSInteger)fontSize
                            x:(NSInteger)x
                            y:(NSInteger)y
                        safeHeight:(NSInteger)safeHeight
                        width:(NSInteger)width
                lineSpacing:(NSInteger)lineSpacing
                fontScale:(PTCPCLFontSize)fontScale
                  text:(NSString * _Nonnull)text;
```

### 3.54 print text that feed line automatically

- Description

print text that feed line automatically.rotate 90\270,the cpclCenter interface is invalid

- Paramater

Paramater	Description
rotate	text rotate.
font	text font.
fontSize	text font scale,deault is 0, other values are invalid
xPos	orgin x of text.
yPos	origin y of text.
center	Whether in the middle
safeHeight	height of text field.Part will not print more than height
width	width of text field.if width is 0,not auto line
lineSpacing	line space.
fontScale	Font magnification factor.
text	text.

#### ■ Code

```
- (NSInteger)cpclAutoTextWithRotate:(PTCPCLStyleRotation)rotate
                           font:(PTCPCLTextFontName)font
                           fontSize:(NSInteger)fontSize
                           xPos:(NSInteger)xPos
                           yPos:(NSInteger)yPos
                          center:(BOOL)center
                           safeHeight:(NSInteger)safeHeight
                           width:(NSInteger)width
                          lineSpacing:(NSInteger)lineSpacing
                           fontScale:(PTCPCLFontSize)fontScale
                           text:(NSString * _Nonnull)text;
```

## 3.55 Text wraps automatically

#### ■ Description

Text wrap automatically, recommended

- Paramater

Paramater	Description
font	text font, chinese: PTCPCLThaiFontStyle1, other: PTCPCLThaiFontStyle0
fontSize	text font size.default 0
x	origin x of text.
y	origin y of text.
lineSpace	Line spacing for automatic line feed.default 30
width	width of text field.
text	text.

- Code

```
- (void)cpclPrintAutoTextWithFont:(PTCPCLTextLineFontStyle)font
                           fontSize:(NSInteger)fontSize
                           x:(NSInteger)x
                           y:(NSInteger)y
                           lineSpace:(NSInteger)lineSpace
                           width:(NSInteger)width
                           text:(NSString * _Nonnull)text;
```

### 3.56 Print center text

- Description

Print center text

- Paramater

Paramater	Description
rotate	text rotate.
font	text font.
fontSize	This parameter is invalid, default is 0
x	origin x of text.
y	origin y of text.
width	width of textbox
text	content of text.

- Code

```
- (void)cpclCenterTextWithRotate:(PTCPCLStyleRotation)rotate
                           font:(PTCPCLTextFontName)font
                           fontSize:(NSInteger)fontSize
                           x:(NSInteger)x
                           y:(NSInteger)y
                           width:(NSInteger)width
                          text:(NSString * _Nonnull)text;
```

### 3.57 print text.

- Description

print text.

- Paramater

Paramater	Description
rotate	text rotate.
font	text font.
fontSize	text font scale, This parameter is 0 by default. If other enumeration values are selected, printer firmware support is required. In cases where the firmware is not supported, the zoom font can be used (cpclSetMagWithWidth: height:) interface
x	origin x of text.
y	origin y of text.
text	text.

- Code

```
- (void)cpclTextWithRotate:(PTCPCLStyleRotation)rotate
                      font:(PTCPCLTextFontName)font
                     fontSize:(PTCPCLTextFontSize)fontSize
                        x:(NSInteger)x
                        y:(NSInteger)y
                      text:(NSString * _Nonnull)text;
```

### 3.58 print reverse bold text.

- Description

print reverse bold text.

- Paramater

Paramater	Description
font	text font.
rotate	text rotate.
fontSize	text font scale, This parameter is 0 by default. If other enumeration values are selected, printer firmware support is required. In cases where the firmware is not supported, the zoom font can be used (cpclSetMagWithWidth: height:) interface
reverse	Whether it is reversed
bold	bold
x	origin x of text.
y	origin y of text.
text	text.

- Code

```

- (void)appendTextWithFont:(PTCPCLTextFontName)font
                      rotate:(PTCPCLStyleRotation)rotate
                     fontSize:(PTCPCLTextFontSize)fontSize
                    reverse:(BOOL)reverse
                      bold:(PTCPCLTextBold)bold
                        x:(NSInteger)x
                        y:(NSInteger)y
                      text:(NSString * _Nonnull)text;

```

### 3.59 Set the background blackness value

- Description

Set the background blackness value.(0-255) 0: normal

- Paramater

Paramater	Description
value	Set the background blackness value

- Code

```
- (void)cpclSetBackgroundBlacknessValue:(NSInteger)value;
```

### 3.60 set back text.

- Description

set back text, Some models are not supported.

- Paramater

Paramater	Description
font	text font.
rotate	text rotate.
fontSize	Size identifier for the font
xPos	x-coordinate of start point
yPos	y-coordinate of start point
text	The text data to be printed

- Code

```
- (void)cpclBackTextWithFont:(PTCPCLTextFontName)font
                      rotate:(PTCPCLStyleRotation)rotate
                     fontSize:(NSInteger)fontSize
                      xPos:(NSInteger)xPos
                      yPos:(NSInteger)yPos
                     text:(NSString *_Nonnull)text;
```

### 3.61 get printer serial number.

- Description

get printer serial number.

- Code

```
- (void)cpclGetPrinterSN;
```

### 3.62 set the paper type1.

- Description

set the paper type1, A400\A300S\A300L does not support this interface

- Paramater

Paramater	Description
type	paper type.

- Code

```
- (void)cpclPaperTypeWithType:(PTCPCLPaperType)type;
```

### 3.63 set the paper type2

- Description

set the paper type2, A400\A300S\A300L supports this interface

- Paramater

Paramater	Description
type	paper type.

- Code

```
- (void)setPrinterPaperTypeFor4Inch:(PTCPCLNewPaperType)type;
```

## 3.64 set the darkness of the printout from the printer

- Description

set the darkness of the printout from the printer

- Paramater

Paramater	Description
density	0-2

- Code

```
- (void)setPrinterDensity:(NSInteger)density;
```

## 3.65 get printer density.

- Description

get printer density.

- Code

```
- (void)getPrinterDensity;
```

## 3.66 get Printer Battery1

- Description

get Printer Battery, This interface is a custom function, which is only supported by some models, <000902> is 92%

- Code

```
- (void)getPrinterBattery;
```

## 3.67 get Printer Battery2

- Description

get Printer Battery, This interface is a custom function, which is only supported by some models,eg:A400, ,<38360000> is 86%

- Code

```
- (void)getPrinterBatteryLevel;
```

## 3.68 get Printer Battery2

- Description

Obtain the voltage, eg: 7.12V

- Code

```
- (void)getPrinterVoltage;
```

## 3.69 Set Bluetooth name

- Description

set Bluetooth name, This interface is a custom function, which is only supported by some models,eg:A400

- Code

```
- (void)setBluetoothName:(NSString *_Nullable)name;
```

## 3.70 start utilities sessions.

- Description

start utilities sessions.

- Code

```
- (void)cpclUtilitySession;
```

### 3.71 prefix if a single line utilities session.

- Description

- prefix if a single line utilities session.

- Code

```
- (void)cpclLineMode;
```

### 3.72 Set margin

- Description

- Set margin

- Paramater

Paramater	Description
offset	Specifies the distance from the left edge in units

- Code

```
- (void)cpclLineMargin:(NSInteger)offset;
```

### 3.73 feed

- Description

- feed

- Code

```
- (void)cpclLineFeed;
```

## 3.74 Set feed

- Description

  - Set feed

- Paramater

Paramater	Description
amount	How much to feed in units.-4000~4000dots

- Code

  - `(void)cpclFeed:(NSInteger)amount;`

## 3.75 Set the print label before the offset

- Description

  - when used in a label session, is used to perform an additional media movement before a label is printed

- Paramater

Paramater	Description
amount	How much to feed in units.0~4000dots

- Code

  - `(void)cpclReverse:(NSInteger)amount;`

## 3.76 set the maximum speed at which printout occurs.

- Description

  - set the maximum speed at which printout occurs.

- Paramater

Paramater	Description
value	speed to print in an arbitrary scale,0-5.

- Code

```
- (void)cpclSpeed:(NSInteger)value;
```

### 3.77 Positioning label

- Description

the printer should attempt to synchronize to a mark or gap on the media after the label is printed, Used for label paper printing.

- Code

```
- (void)cpclForm;
```

### 3.78 set the darkness of the printout from the printer

- Description

set the darkness of the printout from the printer.default:0

- Paramater

Paramater	Description
value	darkness of the printout, -100~200.

- Code

```
- (void)cpclTone:(NSInteger)value;
```

### 3.79 changes the orientation of the printed label or of line print text

- Description

changes the orientation of the printed label or of line print text

- Paramater

Paramater	Description
degrees	The orientation of the label, 0 or 180.

- Code

```
- (void)cpclTurn:(NSInteger)degrees;
```

## 3.80 Paper learning instructions

- Description

Paper learning instructions.If the printer shows that the paper is out of paper, send the instruction in the state of closing the paper

- Code

```
- (void)setPaperLearn;
```

## 3.81 Set the version of QRCode

- Description

Set the QRCode version, the range of version is 0-25, when it is equal to 0, it means that the program uses automatic; 1-25, it means that the size set now, some models are supported

- Paramater

Paramater	Description
density	0-25

- Code

```
- (void)setQRCodeVersion:(NSInteger)version;
```

## 3.82 Get the QRCode version

- Description

Get the QRCode version, some models are supported

- Code

```
- (void)getQRCodeVersion;
```

## 3.83 Get printer model

- Description

Get printer model, Part of the A300S firmware version is supported

- Code

```
- (void)cpclGetPrinterModel;
```

## 3.84 Set Character CodePage

- Description

Set Character CodePage

- Paramater

Paramater	Description
codepage	"USA" "FRANCE" "GERMANY" "UK" "DENMARK" "SWEDEN" "ITALY" "SPAIN" "JAPAN-S" "NORWAY" "DENMARK II" "SPAIN II" "LATIN9" "KOREA" "SLOVENIA" "CHINA" "BIG5" "CP874" "CP850" "CP437" "CP860" "CP863" "CP865" "CP866" "CP852" "CP858" "CP857" "CP737" "CP720" "CP775" "CP855" "CP862" "CP864" "ISO8859-6" "ISO8859-8" "ISO8859-9" "ISO8859-15" "WPC1252" "WPC1250" "WPC1251" "WPC1252" "WPC1254" "WPC1255" "WPC1256" "ISO8859-1" "ISO8859-2" "ISO8859-3" "ISO8859-4" "ISO8859-5" "TIS11" "TIS18" "WPC1258" "UnicodeBigUnmarked"

- Code

```
- (void)cpclSetCharacterCodePage:(NSString *_Nonnull)codepage;
```

### 3.85 Set Khmer on/off state

- Description

Set the Khmer language switch. To print other code pages, close the Khmer language mode first and then switch the code page setting mode. When printing Khmer language, open the Khmer language mode first, and invoke 'cpclSetKhmerCodepage'

- Paramater

Paramater	Description
state	0: close; 1:open

- Code

```
- (void)cpclSetKhmerState:(NSInteger)state;
```

### 3.86 Set Khmer codepage

- Description

Set the Khmer language code page, under which Chinese is printed with font size of 8 and font size of 55. After printing, exit Khmer mode and call cpclExitKhmerMode

- Code

```
- (void)cpclSetKhmerCodepage;
```

## 3.87

- Description

    |    @brief Exit Khmer language mode

- Code

```
- (void)cpclExitKhmerMode;
```

## 3.88 Arabic transform

- Description

    |    Arabic transform

- Paramater

Paramater	Description
function	48: close; 49: Sort by word; 50: Phrase sort; 51: Sort by complete rules

- Code

```
- (void)cpclSetArabicTransformFunction:(NSInteger)function;
```

## 3.89 get Arabic status

- Description

    |    get Arabic status:00 00: close; 01 00: Sort by word; 02 00: Phrase sort; 03 00: Sort by complete rules

- Code

```
- (void)cpclGetArabicTransformStatus;
```

### 3.90 Thai transform status

- Description

Thai transform status

- Paramater

Paramater	Description
status	48: close 49:open

- Code

```
- (void)cpclSetThaiTransformStatus:(NSInteger)status;
```

### 3.91 Set Vietnamese Transform

- Description

Set Vietnamese Transform

- Paramater

Paramater	Description
function	48: close; 49: ASCII; 50: UTF-8

- Code

```
- (void)cpclSetVietnameseTransformFunction:(NSInteger)function;
```

### 3.92 get Vietnamese status

- Description

get Vietnamese status:00 00: close; 01 00: ASCII; 02 00: UTF-8;

- Code

```
- (void)cpclGetVietnameseTransformStatus;
```

## 3.93 RFID Calibration

- Description

Calibration RFID

- Code

```
- (void)rfidCalibrate;
```

## 3.94 RFID Print

- Description

When writing or reading RFID, you first need to call this interface

- Code

```
- (void)rfidPrint;
```

## 3.95 Write RFID

- Description

Write RFID;The data length range refers to the storage area enumeration;The TID section is read-only and not writable, The length of the read can be used directly by the maximum value of the region

- Paramater

Paramater	Description
length	The length of the data read can only be an even number
beginAddr	Start position, default is 0; For EPC, default is 2
memory	memory area

- Code

```
- (void)rfidReadDataWithLength:(NSInteger)length beginAddr:(NSInteger)beginAddr memory:(PTCPCLRFIDMemory*)memory;
```