

Label command

table of Contents

Label command.....	2
Appoint.....	2
Page Control command.....	2
Page start command	2
Page end command	3
Page Print Command.....	4
Feed Command	4
Text drawing Command.....	5
Line drawing Command.....	8
Rectangular box drawing Command.....	9
Draw rectangular block Command	11
1D Barcode Command	12
QRCode Command.....	16
PDF417 Barcode command.....	17
Bitmap Command	18

Label command

Appoint

Name	Appoint
Code	[COMMAND]+[Parameter]
description	<p>COMMAND: command header identifying the action instruction, hexadecimal number, blue bold, such as: 1A 54 00. Parameter: Instruction input parameter.</p> <p>Parameter definition:</p> <p>Single-byte parameters: A specific character represents a single byte, such as Rotate, which represents a rotation and occupies one byte.</p> <p>Double-byte parameters: A specific character is combined with _L and _H, which in turn indicates the lower and upper bytes of the parameter. For example, x_L and x_H sequentially indicate the lower byte and upper byte of the 2-byte parameter X.</p> <p>Unit: Point. 1 point = 0.125mm.</p> <p>Range definition:</p> <p>x range of values:</p> <p>{a, b} :x = a or x = b;</p> <p>[a, b] :a ≤ x ≤ b;</p> <p>(a, b) :a < x < b;</p>
Range of parameters	
Defaults	
Support model	
Notice	
examples	

Page Control command

Page start command

Name	Page start
Code	<p>Hexadecimal : a: 1A 5B 00</p> <p>b: 1A 5B 01 x_L x_H y_L y_H Width_L width_H Height_L Height_H Rotate</p>
description	<p>Indicates the beginning of a Page, and sets the Page size, reference point coordinates, and page rotation angle.</p> <p>a:</p>

	<p>Input Parameters: None Return Value: None</p> <p>Remarks: This instruction sets the page to 576 points wide and 1200 points high, and the reference point coordinate position is the upper left corner of the current position. The page does not rotate.</p> <p>b: input parameters:</p> <p>x Page Page Reference Origin Offset The x-axis offset of the upper left corner of the current position of the label sheet.</p> <p>y Page Page Reference Origin Offset The y-axis offset of the upper left corner of the current position of the label sheet.</p> <p>Width Page Page width. The range of x+Width is: [1,576].</p> <p>Height Page Page height. The range of Height is: [1, 1200].</p> <p>Rotate Page rotation angle, Rotate value range: {0,1}. When Rotate is 0, the page does not rotate. When Rotate is 1, the page is rotated 90° to print.</p> <p>Return value: None.</p>
Range of parameters	
Defaults	
Support model	
Notice	
examples	1A 5B 01 00 00 00 00 80 01 40 01 00

Page end command

Name	Page end command
Code	Hexadecimal : 1A 5D 00
description	<p>Identifies the end of a Page data.</p> <p>Input parameters: no.</p> <p>return value: no.</p>
Range of parameters	
Defaults	
Support model	
Notice	
examples	

Page Print Command

Name	Page print command
Code	Hexadecimal : a: 1A 4F 00 b: 1A 4F 01 PrintNum
description	Print the contents of the Page onto the label sheet. a: Input parameters: no Return value: None Note: This command only prints the page content once. b: Input parameters: PrintNum Page Page content will print PrintNum times. return value: no.
Range of parameters	
Defaults	
Support model	
Notice	
examples	

Feed Command

Name	Feed Command
Code	Hexadecimal : a: 1A 0C 00 b: 1A 0C 01 Stop Position Offset_L Offset_H
description	a; Input parameters: no. return value: no.

	<p>Remarks:</p> <p>After receiving this command, the printer feeds paper, and when the label seam is flush with the paper cutting port, the paper feed is stopped. At this time, the printer</p> <p>Current cursor position, 8mm below the label head</p> <p>b:</p> <p>Input parameters:</p> <p>StopPosition</p> <p>Mark the stop position of the paper, the value range: {0, 3}.</p> <p>StopType = 0, stop paper feed at the position where the paper cutting port is flush with the label seam;</p> <p>StopType = 1, the cursor and the label head are at the same level to stop the paper feeding;</p> <p>StopType = 2, stop the paper feed at the position where the paper cutting port is flush with the black mark;</p> <p>StopType = 3, the cursor stops at the same place as the black label is flush with;</p> <p>Offset</p> <p>Identifies the stop position offset. When the printer detects the label head or label, it continues to feed the length of Offset points.</p> <p>return value:</p> <p>no.</p>
Range of parameters	
Defaults	
Support model	
Notice	
examples	1A 0C 01 00 00 01

Page drawing command

In the following command, all coordinate points whose reference origin is the reference point defined in the Page Start command. The command descriptions Page_Width and Page_Height represent the page width and height defined in the respectively.

Text drawing Command

Name	Text Drawing Command
Code	Hexadecimal :
	a.

	<p>1A 54 00 x_L x_H y_L y_H String00</p> <p>b :</p> <p>1A 54 01 x_L x_H y_L y_H FontHeight_L FontHeight_H FontType_L FontType_H String00</p>
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description	<p>a.</p> <p>Input parameters:</p> <p>x Defines the x coordinate of the starting position of the text. Value range: [0, Page_Width-1];</p> <p>y Define the starting position of the text y-coordinate, value range: [0, Page_Height-1];</p> <p>String00 The stream of text string data to be terminated at 0x00 for printing.</p> <p>return value:</p> <p>no</p> <p>Note: Text is cut off and printed when the sum of the text width and the text start coordinate x is greater than the page width.</p> <p>b.</p> <p>Input parameters:</p> <p>X Defines the x coordinate of the starting position of the text. Value range: [0, Page_Width-1];</p> <p>y Define the starting position of the text y-coordinate, value range: [0, Page_Height-1];</p> <p>FontHeight Text character font height, valid values range {16, 24, 32, 48, 64, 80, 96} (individual models {16, 17, 18, 24}).</p> <p>FontType Text character effects, you define as follows::</p> <table border="1" data-bbox="458 1767 1369 2020"> <thead> <tr> <th>Data bits</th> <th>definition</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Bold flag: set 1 font bold, clear font is not bold.</td> </tr> <tr> <td>1</td> <td>Underline flag: Set to 1 underlined text, clear to zero underlined.</td> </tr> <tr> <td>2</td> <td>Reverse white flag: Set 1 text against white (white on black), clear is not inverted.</td> </tr> </tbody> </table>	Data bits	definition	0	Bold flag: set 1 font bold, clear font is not bold.	1	Underline flag: Set to 1 underlined text, clear to zero underlined.	2	Reverse white flag: Set 1 text against white (white on black), clear is not inverted.
Data bits	definition								
0	Bold flag: set 1 font bold, clear font is not bold.								
1	Underline flag: Set to 1 underlined text, clear to zero underlined.								
2	Reverse white flag: Set 1 text against white (white on black), clear is not inverted.								

	3	Delete line flag: set 1 text with strikethrough, clear without delete line.
	[5,4]	Rotation flag: 00 Rotation 0°; 01 Rotate 90°; 10 Rotate 180°; 11 Rotate 270°. (When the need to rotate is the need to pay attention to the starting point coordinates)
	[11,8]	Font width magnification;
	[15,12]	Font height magnification;
	<p>The stream of text string data to be terminated at 0x00 for printing. Return value: None. Remarks: When the sum of the text width and the text start coordinate x is greater than the page width, the text is truncated and printed.</p>	
Range of parameters		
Defaults		
Support model		
Notice		
examples	<p>A:</p> <pre>1B 40 1a 5B 01 00 00 00 00 80 01 40 01 00 1A 54 00 00 00 00 00 B0 AE CE D2 D6 D0 BB AA 00 1a 5d 00 1a 4f 00</pre> <p>B:</p> <pre>1a 5B 01 00 00 00 00 80 01 00 01 00 1A 54 01 00 00 00 00 60 00 00 00 C4E3BAC3 00 1A 54 01 18 00 00 00 60 00 00 00 C4E3BAC3 00 1A 54 01 a0 00 00 00 60 00 10 33 C4E3BAC3 00</pre>	

	1a 5d 00 1a 4f 00
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Line drawing Command

Name	Line Drawing Command
Code	Hexadecimal : a. 1A 5C 00 StartX_L StartX_H StartY_L StartY_H EndX_L EndX_H EndY_L EndY_L b. 1A 5C 01 StartX_L StartX_H StartY_L StartY_H EndX_L EndX_H EndY_L EndY_H Width_L Width_H Color
description	Draw a line segment between two points specified on the Page. a. Input parameters: StartX The x coordinate value of the starting point of the straight line segment. The value range is [0, Page_Width-1]. StartY The y coordinate value of the starting point of the straight line segment. The value range is [0,Page_Height-1]. EndX The x-coordinate value of the end point of the straight line segment. The value range is [0, Page_Width-1]. EndY The y coordinate value of the end point of the straight line segment. The range of values is [0, Page_Height-1]. return value: no. b. Input parameters: StartX

	<p>The x coordinate value of the starting point of the straight line segment. The value range is [0, Page_Width-1].</p> <p>StartY</p> <p>The y coordinate value of the starting point of the straight line segment. The value range is [0,Page_Height-1].</p> <p>EndX</p> <p>The x-coordinate value of the end point of the straight line segment. The value range is [0, Page_Width-1].</p> <p>EndY</p> <p>The y coordinate value of the end point of the straight line segment. The range of values is [0, Page_Height-1].</p> <p>Width</p> <p>Line segment width, value range: [1, Page_Height-1].</p> <p>Color</p> <p>Line segment color, value range: {0, 1}. When Color is 1, the line segment is black. When Color is 0, the line segment is white.</p> <p>Output parameters:</p> <p>no.</p>
Range of parameters	
Defaults	
Support model	
Notice	
examples	<pre>1B 40 1a 5B 01 00 00 00 00 80 01 40 01 00 1A 5C 01 00 00 00 00 00 01 00 00 30 00 01 1a 4f 00</pre>

Draw a rectangle with a segment instruction

```
1B 40 1a 5B 01 00 00 00 00 80 01 00 01 00
1A 5C 01 10 00 10 00 00 01 10 00 04 00 01
1A 5C 01 10 00 10 00 10 00 c0 00 04 00 01
1A 5C 01 10 00 c0 00 00 01 c0 00 04 00 01
1A 5C 01 00 01 10 00 00 01 c0 00 04 00 01
1a 4f 00
```

Rectangular box drawing Command

Name	Rectangular Box Drawing Command
Code	<p>Hexadecimal : a.</p> <p>1A 26 00 Left_L Left_H</p> <p>Top_L Top_H</p> <p>Right_L Right_H</p>

	<p>Bottom_L Bottom_H</p> <p>b.</p> <p>1A 26 01 Left_L Left_H Top_L Top_H Right_L Right_H Bottom_L Bottom_H Width_L Width_H Color</p>
description	<p>Draws a rectangle of a specified size at a specified position on the Pages page.</p> <p>a.</p> <p>Input parameters:</p> <p>Left The x coordinate value of the upper left corner of the rectangle, in the range of [0, Page_Width-1].</p> <p>Top The y coordinate value of the upper left corner of the rectangle. Value range: [0, Page_Height-1].</p> <p>Right The x coordinate value of the lower right corner of the rectangle. Value range: [0, Page_Width-1].</p> <p>Bottom The y-coordinate value in the lower right corner of the rectangle. Value range: [0, Page_Height-1].</p> <p>return value:</p> <p>no.</p> <p>b.</p> <p>Input parameters:</p> <p>Left The x coordinate value of the upper left corner of the rectangle, in the range of [0, Page_Width-1].</p> <p>Top The y coordinate value of the upper left corner of the rectangle. Value range: [0, Page_Height-1].</p> <p>Right The x coordinate value of the lower right corner of the rectangle. Value range: [0, Page_Width-1].</p> <p>Bottom The y-coordinate value in the lower right corner of the rectangle. Value range: [0, Page_Height-1].</p> <p>Width The width of the rectangle.</p> <p>Color</p>

	The color of the rectangular frame, the straight range {0, 1}. When Color = 1, draw a black rectangle wide, and when Color = 0, draw a white rectangle. Return parameters: none
Range of parameters	
Defaults	
Support model	
Notice	
examples	1a 5B 01 00 00 00 00 80 01 40 01 00 1a 26 01 10 00 10 00 00 01 00 01 10 00 01 1a 4f 00

```
1B 40 1a 5B 01 00 00 00 00 80 01 40 01 00
1a 26 01 10 00 10 00 00 01 00 01 10 00 01
1A 54 00 50 00 50 00 B0 AE CE D2 D6 D0 BB AA 0X00
1a 4f 00
```

(draw a table)

```
1B 40 1a 5B 01 00 00 00 00 80 01 40 01 00
1a 26 01 10 00 10 00 00 01 C0 00 04 00 01
1A 5C 01 10 00 40 00 00 01 40 00 04 00 01
1A 5C 01 10 00 80 00 00 01 80 00 04 00 01
1A 5C 01 40 00 10 00 40 00 c0 00 04 00 01
1A 54 00 50 00 50 00 B0 AE CE D2 D6 D0 BB AA 00
1a 4f 00
```

Draw rectangular block Command

Name	Draw Rectangular Block Command
Code	Hexadecimal : 1A 2A 00 Left_L Left_H Top_L Top_H Right_L Right_H Bottom_L Bottom_H Color
description	Draw rectangular blocks at the specified position on the Pages page. Input parameters: Left The x coordinate value of the upper left corner of the rectangular block. The value range is [0, Page_Width-1]. Top

	<p>The y coordinate value of the upper left corner of the rectangle. Value range: [0, Page_Height-1].</p> <p>Right</p> <p>The x-coordinate value of the lower right corner of the rectangle. Value range: [0, Page_Width-1].</p> <p>Bottom</p> <p>The y-coordinate value in the lower right corner of the rectangle. Value range: [0, Page_Height-1].</p> <p>Color</p> <p>The color of the rectangle, range: {0, 1}. When Color is 1, the rectangular block is black. When Color is 0</p> <p>The rectangle is white.</p> <p>return value:</p> <p>no.</p>
Range of parameters	
Defaults	
Support model	
Notice	
examples	<pre>1B 40 1a 5B 01 00 00 00 00 80 01 40 01 00 1A 2A 00 00 00 00 00 60 00 60 00 01 1a 4f 00</pre>

1D Barcode Command

Name	1D Barcode Command
Code	<p>Hexadecimal :</p> <p>1A 30 00 x_L x_H y_L y_H BarcodeType BarcodeHeight UnitWidth Rotate String00</p>
description	<p>Draw a one-dimensional bar code at the specified position on the Page .</p> <p>Input parameters:</p> <p>x</p> <p>The x-coordinate value of the upper left corner of the bar code, value range: [0, Page_Width-1].</p> <p>y</p> <p>The y-coordinate value in the upper left corner of the bar code, in the range of [0, Page_Height-1].</p> <p>BarcodeType</p>

Identifier barcode type, value range: [0,29]. The values are defined as follows:BarcodeType

Identifier barcode type, value range: [0,29]. The values are defined as follows:

value	Type	length	Barcode range	value	remark
0	UPC-A	11	48-57		
1	UPC-E	6	48-57		
2	EAN13	12	48-57		
3	EAN8	7	48-57		
4	CODE39	1-9	48-57,65-90,32,36,37,43,45,46,47		
5	I25	1-	even 48-57		
6	CODABAR	1-	48-57,65-68,36,43,45,46,47,58		
7	CODE93	1-255	0-127		
8	CODE128	2-255	0-127		
9	CODE11				
10	MSI				
11	128M				Can switch coding modes according to data -> !096 - !105
12	EAN128				Automatically switch encoding mode
13	25C				25C Check use mod 10-> The odd number is first complemented by 0, a multiple of 10 - [(sum of odd-numbered digits <left to right) + (sum of even-numbered digits) *3]
14	39C				39 The check code of Code 39 must be matched with the "check code relative value comparison table". As shown in the table, the relative values that are detected are accumulated and divided by 43. The remaining code is then

				checked against the relative code character, which is the check code. .
15	39			Full ASCII 39 Code, Special characters are represented by two representable words, 39C also contains Full ASCII, note width-to-width ratio processing
16	EAN13+2			The additional code is separated from the main code by 7-12 units, starting at 1011 with the interval 01, ($_{0} * 10 + _1$) Mod 4 -> 0--AA 1--AB 2--BA 3--BB
17	EAN13+5			The additional code part is the same as the above pattern $((_{0} + _2 + _4) * 3 + (_1 + _3) * 9) \text{ mod } 10 \rightarrow$ "bbaaa", "babaa", "baaba", "baaab", "abbaa", "Aabba", "aaabb", "ababa", "abaab", "aabab
18	EAN8+2			Same EAN13+2
19	EAN8+5			same EAN13+5
20	POST			For details, see the specification, which is the height and width of the bar code.
21	UPCA+2			same EAN
22	UPCA+5			same EAN
23	UPCE+2			Same as EAN
24	UPCE+5			Same as EAN
25	CPOST			
26	MSIC			Check code again as data check code
27	PLESSEY			

28	ITF14			25C variant, the first number is filled with zeros. The last number must be deducted when checking the code, but it is still filled with the last one.
29	EAN14			

Barcode Height :

Define bar code height.

UnitWidth :

Define barcode code width. Value range: [1, 4]. The values are defined as follows :

Width Value	Multi-level bar code unit width (mm)	Binary barcode narrow width	Binary barcode line wide line width
1	0.125	0.125	0.25
2	0.25	0.25	0.50
3	0.375	0.375	0.75
4	0.50	0.50	1.0

Rotate:

Indicates the bar code rotation angle. Value range: [0, 3]. The values are defined as follows:

Rotate Value	definition
0	Barcode does not rotate to draw.
1	Barcode rotation 90° drawing.
2	Barcode rotation 180°.
3	Barcode rotation 270° drawing.

String00:

Text character stream ending with 0x00.

return value:

no.

Range of parameters	
Defaults	
Support model	
Notice	
examples	(2 Inch paper) 1b 40 1a 5B 01 00 00 00 00 80 01 00 01 00 1a 30 00 20 00 40 00

	0f 55 02 00 31 30 31 30 30 00 1a 5d 00 1a 4f 00
--	---

QRCode Command

Name	QRCode Command										
Code	Hexadecimal : 1A 31 00 version ECC x_L x_H y_L y_H UnitWidth Rotate String00										
description	<p>Input parameters:</p> <p>version Specify the character version. Value range: [0,20]. When the version is 0, the printer based on the length of the string The version number is calculated automatically.</p> <p>ECC Specify the error correction level. Value range: [1, 4]. The values are defined as follows:</p> <table border="1" data-bbox="454 1317 1369 1617"> <thead> <tr> <th>ECC</th> <th>Error correction level</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>L: 7%, Low error correction, more data.</td> </tr> <tr> <td>2</td> <td>M: 15%, middle error Correction</td> </tr> <tr> <td>3</td> <td>Q: Optimize error correction</td> </tr> <tr> <td>4</td> <td>H: 30%, Highest error correction, less data.</td> </tr> </tbody> </table> <p>The upper left corner of the QRCode code x coordinate value, the range of values: [0, Page_Width-1].</p> <p>y The y-coordinate value in the upper left corner of the QRCode code, in the range [0, Page_Height-1].</p> <p>UnitWidth QRCode code block, value range: [1, 4]. Value definition and command input parameters UniWidth the same.</p>	ECC	Error correction level	1	L: 7%, Low error correction, more data.	2	M: 15%, middle error Correction	3	Q: Optimize error correction	4	H: 30%, Highest error correction, less data.
ECC	Error correction level										
1	L: 7%, Low error correction, more data.										
2	M: 15%, middle error Correction										
3	Q: Optimize error correction										
4	H: 30%, Highest error correction, less data.										

	<p>Rotate QRCode rotation angle, value range: [0, 3]. Value definition and command input parameters Same as Rotate. String00 QRCode text character stream terminated at 0x00. return value: no.</p>
Range of parameters	
Defaults	
Support model	
Notice	
examples	<p>1B 40 1a 5B 01 00 00 00 80 01 40 01 00 1A 31 00 03 03 60 00 20 00 04 00 B0 AE CE D2 D6 D0 BB AA 00 1a 5d 00 1a 4f 00</p>

PDF417 Barcode command

Name	PDF417 Barcode Command
Code	<p>Hexadecimal : 1A 31 01 ColNum ECC LWRatio x_L x_H y_L y_H UnitWidth Rotate String00</p>
description	<p>Page Specifies the location to draw PDF417 barcodes. Input parameters: ColNum ColNum is the number of columns that describe how many codewords are contained in each row. One codeword is 17*UnitWidth points. The number of rows is automatically generated by the printer, and the number of rows is limited to 3 to 90. The range of values for ColNum: [1,30]; ECC Error correction level, value range: [0. 8]. The upper left corner of the PDF417 code x coordinate value, the range of values: [0, Page_Width-1]. Y coordinate value of upper left corner of PDF417 code, range of values: [0, Page_Height-1].</p>

	<p>UnitWidth PDF417 code width, value range: [1, 3]. Value definition and command input parameters UniWidth the same.</p> <p>Rotate PDF417 code rotation angle, value range: [0, 3]. Value definition and command input parameters Same as Rotate.</p> <p>String00 PDF417 text character stream terminated at 0x00. return value: no.</p>
Range of parameters	
Defaults	
Support model	
Notice	
examples	<pre>1B 40 1a 5B 01 00 00 00 80 01 40 01 00 1A 31 01 10 02 02 50 00 20 00 03 00 B0 AE CE D2 D6 D0 BB AA 0X00 1a 4f 00</pre>

Bitmap Command

Name	Bitmap Command
Code	<p>Hexadecimal :</p> <p>a: 1A 21 00 x_L x_H y_L y_H Width_L Width_H Height_L Height_L Data</p> <p>b: 1A 21 01 x_L x_H y_L y_H Width_L Width_H Height_L Height_L ShowType Data</p>

description	<p>Draw a bitmap at the specified position on the Page.</p> <p>a :</p> <p>Input parameters:</p> <p>x The x-coordinate value in the upper left corner of the bitmap. Value range: [0, Page_Width].</p> <p>y The y-coordinate value in the upper left corner of the bitmap, in the range [0, Page_Height].</p> <p>Width Bitmap pixel width.</p> <p>Height Bitmap pixel height.</p> <p>Data Bitmap bitmap data.</p> <p>Return value: None.</p> <p>b :</p> <p>Input parameters:</p> <p>x The x-coordinate value in the upper left corner of the bitmap. Value range: [0, Page_Width].</p> <p>y The y-coordinate value in the upper left corner of the bitmap, in the range [0, Page_Height].</p> <p>Width Bitmap pixel width.</p> <p>Height Bitmap pixel height.</p> <p>ShowType Bitmap printing effects, Each bit of the ShowType value is defined as follows:</p> <table border="1" data-bbox="456 1480 1369 1780"> <thead> <tr> <th>bits</th> <th>definition</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Invert flag, set bitmap to reverse printing, clear normal printing.</td> </tr> <tr> <td>[2:1]</td> <td>Rotation flag: 00 Rotate 0°; 01 Rotate 90°; 10 Rotate 180°; 11 Rotate 270°</td> </tr> <tr> <td>[7:3]</td> <td>Reserved.</td> </tr> <tr> <td>[11:8]</td> <td>Bitmap width magnification.</td> </tr> <tr> <td>[15:16]</td> <td>Bitmap height magnification.</td> </tr> </tbody> </table> <p>Data Bitmap bitmap data.</p> <p>Return value: None.</p>	bits	definition	0	Invert flag, set bitmap to reverse printing, clear normal printing.	[2:1]	Rotation flag: 00 Rotate 0°; 01 Rotate 90°; 10 Rotate 180°; 11 Rotate 270°	[7:3]	Reserved.	[11:8]	Bitmap width magnification.	[15:16]	Bitmap height magnification.
bits	definition												
0	Invert flag, set bitmap to reverse printing, clear normal printing.												
[2:1]	Rotation flag: 00 Rotate 0°; 01 Rotate 90°; 10 Rotate 180°; 11 Rotate 270°												
[7:3]	Reserved.												
[11:8]	Bitmap width magnification.												
[15:16]	Bitmap height magnification.												
Range of parameters													

Defaults	
Support model	
Notice	
examples	1a 5B 01 00 00 00 80 01 40 01 00 1a 21 01 40 00 40 00 18 00 18 00 07 22 0820800E38E00C30C80C34FC0DFF980E31102D32242DFDFE2CB58C6CB58C6CB 5AC4CB5AC0CFDAC0C31AC0C71AC0C71AC0CB9AC0CB5280D34400E30580C308 C0C31060C3204082400 1A 5D 00 1a 4f 00