BARCODE SCANNER MODULE (E) SETTING MANUAL

PREFACE

This manual provides users with setting codes and related instructions for the Barcode Scanner Module (E) reading module (hereinafter referred to as the module). Users can modify module settings by scanning the setup code. The setting code annotation with an asterisk (*) indicates the default setting.

The manual is updated intermittently, and no separate notification will be provided.

Version	Time	Note
V1.1	2025-10-16	First edition

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SYSTEM SETTINGS

FACTORY DEFAULT SETTINGS

The module has a factory default setting. If the user has modified the settings, they can scan the "**Factory settings**" code to restore the module's settings to the factory state.

P999998
Factory settings

USER DEFAULT SETTINGS

SAVE USER DEFAULT SETTINGS

In addition to the factory default settings, users can save frequently used settings as user default settings.

User default settings also include all attribute settings for modules, and they will be saved and not lost unless the current settings are saved again as user default settings.

Reading "**Save user default settings**" will save the current settings as user default settings and overwrite the previously saved user default settings. With this setting code, users can customize their own default settings.

P999015
Save user default settings

RESTORE USER DEFAULT SETTINGS

If you have saved the user default settings, you can scan "**Restore user default settings**" to restore the module settings to the user default state.

P999014
Restore user default settings

PRODUCT INFORMATION QUERY

GET MODULE VERSION

Users can scan the "**Get module version**" setup code to read the hardware version and firmware version of the module.

P999904
Get module version

GET SERIAL NUMBER

Users can scan the "Get serial number" setup code to read the module's serial number.

P999027
Get serial number

LIGHT SETTINGS

LIGHTING LAMP

500211
*Enable

500210
Disable

AIMING LIGHT

500111
*Enable

500110
Disable

SOUND SETTINGS

DECODING SUCCESSFUL SOUND SETTINGS

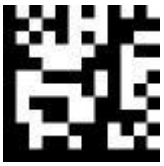
You can enable or disable the decoding successful sound by scanning the relevant setting code.

500711
*Enable

500710
Disable

DECODING SUCCESSFUL SOUND DURATION SETTINGS

184410
*Normal



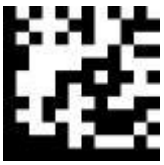
184411
Short

DECODING SUCCESSFUL SOUND FREQUENCY SETTINGS

185537
*2.7KHz

185536
1.6KHz

185535
2.0KHz



185534
2.4KHz

185533
3.1KGz

185532
3.5KHz

1855311
4.2KHz

185530
Silent

COMMUNICATION SETTINGS

USB PORT

When the user connects the module to the host via USB, there are 2 modes available for selection, and the user can set the default mode according to actual needs:

USB keyboard mode: This mode virtualizes the module input as USB keyboard input, eliminating the need for command setup through the USB interface. Barcode data can be directly input using keyboard keys, without the need for drivers, and data can also be easily obtained on the host side.

USB virtual serial port: An interface that complies with the USB CDC specification, where the host side is virtualized as a serial port, and the operation of this serial port is consistent with that of a physical serial port. Most hosts can be used without drivers.

USB KEYBOARD

When connected to a USB cable, the module can be set to HID Keyboard input mode. In this mode, the module becomes a virtual keyboard, and the data receiving host accepts the input from this virtual keyboard as if it were a real keyboard. After the module decodes data, the sending process is to press each key corresponding to the data in virtual keyboard.

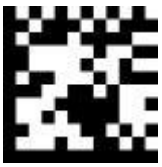
P9995998
*USB keyboard

Note: If the input box of the host can accept keyboard input, the module does not require any additional auxiliary programs in USB keyboard mode and can directly output the decoded data to the input box.

USB TRANSFER RATE

USB rate: 26052x (0 High, 1 Medium, 2 Low)

260520
*High



260521
Medium

260522
Low

USB VIRTUAL SERIAL PORT

When the user uses USB connection while also wanting the host to receive data via serial port, USB virtual serial port mode should be used. From the perspective of the host-side system interface, the module is equivalent to being connected to the host via a serial port.

P995997
USB COM

USB POS

P995996
USB POS

TTL SERIAL COMMUNICATION

Serial communication interface is a common method for connecting modules with host devices (such as PCs, POS, and other devices). When the module is connected to the host using a serial cable, the system defaults to serial communication mode. When using the serial communication interface, the communication parameters between the module and the host device must be perfectly matched to ensure smooth communication and correct content. The serial port configuration is: 9600 baud rate, 8 data bits, no check bit, 1 stop bit. The module has a UART TTL interface and PH2.0-4P connector.

SERIAL PORT OUTPUT

P995999
TTL UART output

SERIAL PORT BAUD RATE

The module supports setting the serial port baud rate, which is 9600bps by default.

158040
300

158041
600

158042
1200

158043
2400

158044
4800

158045
*9600

158047
19200

158048
38400

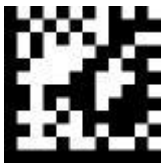
158049
57600

1580410
115200

DATA BIT

It supports setting the data bits to 7 or 8 bits, with 8 bits as the default.

160310
7-bit



160311
*8-bit

STOP BIT

It supports setting the stop bit to 1 or 2 bits. The default stop bit is 1 bit.

160410
2-bit

160411
*1-bit

PARITY BIT SETTING

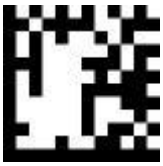
The module can be set with parity bits, and there is no parity (N) by default.

160530
O

160531
S

160532
E

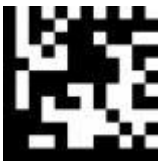
160533
M



160534
*N

SERIAL PORT DEBUGGING

Users can enable both TTL and virtual serial ports through the "**Serial port debugging**" setting code.



P995989
Serial port debugging

READING MODE

Manual trigger mode: Press and hold the trigger button to start reading codes; the code reading ends upon successful reading or when the trigger button is released.

Sensing mode: The device enters the code reading state upon startup and stops reading codes upon successful reading or after reaching the set time limit for a single code reading timeout. When a new barcode appears, the device re-enters the code reading state. In this mode, the re-read delay can be used to prevent the same barcode from being read multiple times. Sensitivity can change the sensitivity of the sensing mode to light.

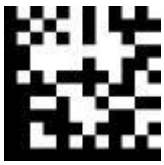
Continuous code reading mode: It remains in a code reading state after startup. Pressing and releasing the button allows the module to switch between the reading state and the stop reading state. In this mode, the re-read delay can be used to prevent the same barcode from being read multiple times. When the reading setting code switches to this mode, the code reading will stop for 3 seconds and then enter the continuous code reading state.

Pulse mode: When the button is pressed, the module starts reading the code, and it stops reading codes once the reading is successful or reaches the set timeout time for one reading. In this mode, a code reading timeout starts from the release of the button.

Batch code reading mode: When the button is pressed, the scanner starts reading the code and stops reading the code until the button is released. A prompt sound is played and barcode information is output when successful scanning occurs while the button is held down. The same code is only allowed to be read and output once while the button is pressed.

MANUAL TRIGGER MODE

MANUAL TRIGGER MODE



183442
Manual trigger mode

CODE READING TIMEOUT SETTINGS

The time range for the setting is 50408x (seconds = x * 1.5s), where x = (1~255) milliseconds. Set to 0, the module will remain in code reading mode until a successful scan is completed. The default is 30 seconds.

5040810
15s

5040820
*30s

5040840
60s

5040880
120s

50408120
180s

50408160
240s

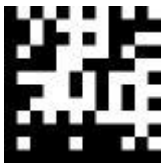
50408200
300s

AUTO SCAN MODE

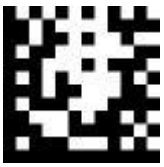
AUTO SCAN MODE

183440
Auto scan mode

CONTINUOUS DATA TRANSMISSION



419011
Enable



419010
*Disable

SENSING MODE

SENSING SCANNING MODE

183448
Sensing mode

SUCCESSFUL DECODING LIGHT RESPONSE

Configure by pairing with sensing lighting set to low brightness or off; after activation, the decoding successful aiming light will immediately turn off/low brightness. After turning off, there will be a 4-second delay response。

419711
Enable

419710
*Disable

SENSING LIGHTING LOW BRIGHTNESS OR OFF

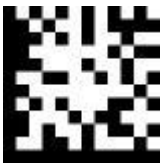
490311
Disable

490310
*Low brightness

SENSITIVITY

The sensitivity specifies the degree of response of the module to changes in the scanned images in the sensing mode. This setting is only effective for the sensing mode in the code reading mode. The range of custom sensitivity values is from 1 to 15. 1 is the highest sensitivity, and 15 is the lowest sensitivity.

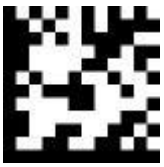
501041
*1



501042
2

501043
3

501044
4



501045
5

501046
6

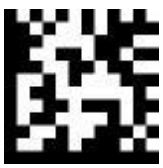
501047
7

501048
8

501049
9

5010410
10

5010411
11



5010412
12

5010413
13

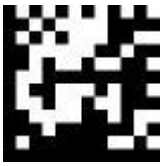
5010414
14

5010415
15

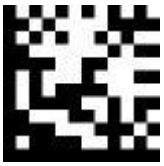
SAME BARCODE TIME INTERVAL CONFIGURATION

The time interval for the same barcode can be set to 1-127 (minimum 1, maximum 127).

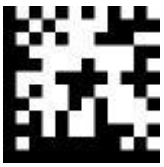
When creating the configuration barcode, the character "^3" should be added at the beginning, such as: ^318907x (x represents the time interval of the same barcode, 1 represents 50ms, 127 represents 127*50ms), and select Data Matrix code. The default time interval is 750ms, 18907x, where x represents (189071-18907127).



189071
50ms



189072
100ms



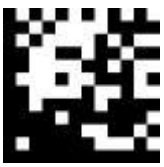
189073
150ms

189074
200ms

189075
250ms

1890710
500ms

1890715
*750ms



1890720
1000ms

BATCH CODE READING MODE

Batch code reading mode: When the button is pressed, the module starts reading the code and stops reading the code until the button is released. A prompt sound is played and barcode information is output when successful scanning occurs while the button is held down. The same barcode is only allowed to be read and output once while the button is held down.

183443
Batch code reading mode

PULSE MODE

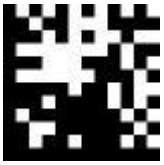
When the button is pressed, the module starts reading the code, and it stops reading code once the reading is successful or reaches the set timeout time for one reading. In this mode, a code reading timeout starts from the release of the button.

183446
Pulse mode

MULTIPLE CODE READING SETTINGS

MULTIPLE CODE READING

464411
Enable



464410
*Disable

MULTIPLE CODE SOUND SETTINGS

Sound once or multiple times between multiple codes (multiple sounds are based on the number of locked barcodes)

258511
One sound

258510
*Multiple sounds

MULTI-CODE CARRIAGE RETURN AND LINE FEED SETTINGS

464511
Remove carriage returns and line feeds

464510
*Add carriage returns and line feeds

BARCODE QUANTITY SETTINGS

Settings (0-7): Setting 0 allows reading 1 barcode, setting 7 allows reading up to 8 barcodes

180030
0

180031
1

180032
2

180033
3

180034
4

180035
5

180036
6

180037
7

DATA EDITING

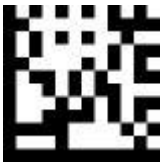
This chapter allows for output configuration of the module, including carriage return/line feed, adding prefixes/suffixes, setting barcode length, removing barcode digits (start/end removal), and multi-country keyboard switching settings. Users only need to scan the corresponding configuration codes according to the requirements in sequence.

CARRIAGE RETURN / LINE FEED SETTINGS

166311
*Add carriage returns

166310
Remove carriage returns

166211
Add line feeds



166210
*Remove line feeds

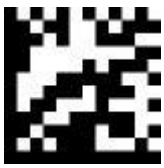
SET START / END CHARACTERS

Remove the x characters 50208x from the beginning (x is the number of digits to be removed)

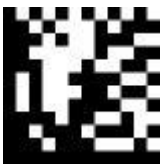
Remove the x characters 50508x from the end (x is the number of digits to be removed)

Remove the number of digits of the barcode (the last 1 represents removing one digit, if it's 2, remove two digits; if it's 0, do not remove, the user can configure it themselves)

Example:



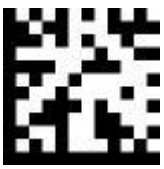
502081
Remove 1 character from the beginning



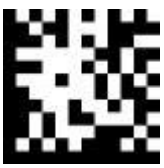
505081
Remove 1 character from the end

KEEP THE CHARACTERS AT THE BEGINNING/END

POSITION



462010
Keep the beginning

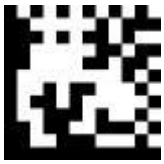


462011
Keep the end

KEEP DIGITS

Keep x characters, x=0 means no operation, 50308x (x is the length of characters to be reserved)

Example:

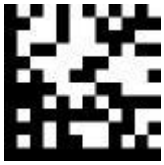


503084
Keep 4 characters

To keep the first 4 characters: Scan sequentially to keep the beginning, keep 4 characters.

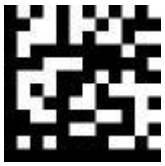
SET BARCODE LENGTH

The barcode length can be set to 1-255 (with a minimum length of 1 and a maximum length of 255). If the length is less than x, no output will be made, and the default minimum length is 3. When creating a configuration barcode, the character "^3" must be added at the beginning, such as: ^301808X (X represents the length of the barcode), and select the data matrix code.



018081
Minimum length of 1

018082
Minimum length of 2

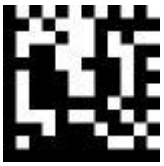


01808255
Length of 255

BARCODE LENGTH LOCKED

If the length is not equal to the set length, the barcode is not output

If not equal to x, it does not output - 01908x

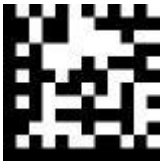


019088
Barcode length locked at 8 characters

KEYBOARD MODE CASE SWITCHING

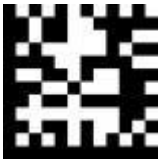
You can set the keyboard mode to switch between uppercase and lowercase letters

402021
All lowercase



402022
All uppercase

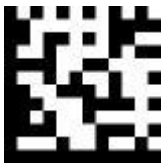
402020
*Restore default



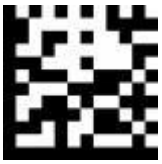
402023
Swap case

KEYBOARD MODE CAPS LOCK LOCKED

When enabled, keyboard output content is not affected by the actual Caps Lock key status. It is disabled by default.



396211
Enable



396210
*Disable

KEYBOARD MODE OUTPUT CHINESE

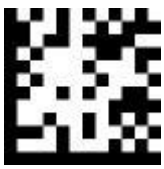
The keyboard mode can output in Chinese. If you need to output in Chinese, please scan the corresponding configuration code as required. (The default status is not Chinese, but other languages can be entered).

401030
*Default

401031
Available for Word and QQ,
not for Excel and Notepad

401032
Available for Notepad and Excel, not for Word

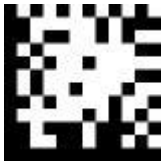
SERIAL PORT OUTPUT FORMAT SETTINGS



406421
Serial port output GBK

406420
Serial port output UTF-8

KEYBOARD LANGUAGE COUNTRY TYPE

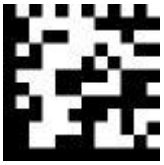


403080
Belgium

403081
United Kingdom

403084
Italy

403085
Spain

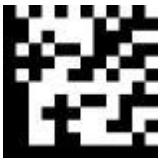


403086
*United States

403087
Singapore

English - US keyboard

403089
El Salvador

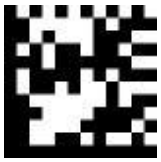


4030810
Japan

4030811
Sierra Leone

4030812
Turkey

4030814
Hungary



4030816
Thai

4030817
Vietnamese

4030822
Czech

4030823
Slovak

4030824
Russian (Russia)

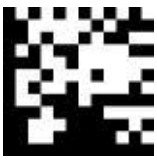
4030826
Arabic

4030827
Portuguese (Brazil)

4030828
Switzerland
GERMAN_QWERTZ

4030829
Italy142

4030830
Switzerland
FRENCH_QWERTZ



4030931
Portugal

403082
France

403083
Germany

BARCODE SYSTEM CONFIGURATION

Each type of barcode has its own unique properties, and the module can be adjusted to adapt to these changes through the setting codes in this chapter.

The fewer the barcode types that have "Allow Reading" enabled, the faster the module's reading speed. Users can prevent the module from reading barcode types that will not be used to improve the module's performance.

COMPREHENSIVE SETTINGS

ENABLE ALL BARCODE SYSTEMS

P999897
Enable all barcodes

DISABLE ALL BARCODE SYSTEMS

P999896
Disable all barcodes

ENABLE ALL 1D SYSTEMS

P999895
Enable all 1D codes

DISABLE ALL 1D SYSTEMS

P999894
Disable all 1D codes

ENABLE ALL QR CODE SYSTEMS

P999893
Enable all QR codes

DISABLE ALL QR CODE SYSTEMS

P999892
Disable all QR codes

AIRLINE 2 OF 5

ENABLE / DISABLE

000411
Enable

000410
*Disable

Barcode Length Settings

The module can be configured to only read Airline 2 of 5 barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 4-80 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

Minimum length setting 53008X (X represents the length of the barcode)

Maximum length setting 53108X (X represents the length of the barcode)

Create Configuration Barcode

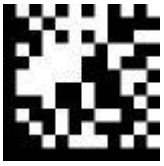
Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^353008X (X represents the length of the barcode). For example, the minimum reading is 3 characters, and the maximum reading is 10 characters;

530083
Minimum 3 characters

5310810
Maximum 10 characters

BC412

ENABLE / DISABLE

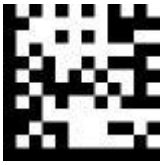


485011
Enable

485010
*Disable

CODABAR

ENABLE / DISABLE



001411
*Enable

001410
Disable

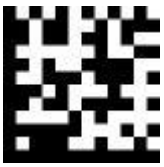
VERIFICATION

In Codabar barcode data, verification characters are not mandatory. If verification characters are present, they are always the last byte of the data. The verification character is the calculated value of all data except the verification character itself, used to verify whether the data is correct.

If set to "**No verification**", the module to transmit all barcode data normally.

If set to "**Enable verification without transmitting verification**", the module will verify the last digit of the barcode, and if the verification passes, it will transmit normal data except for the last verification character. If the verification fails, it will not send the barcode content.

If set to "**Enable verification and transmit verification**", the module will verify the last digit of the barcode, and if the verification passes, the verification character will be transmitted as the last digit of the normal data. If the verification fails, it will not send the barcode content.



389220
*No verification

389222
Enable verification without transmission

389221
Enable verification and transmit verification symbols

If set to "**Enable verification without transmitting verification**", if the data length minus 1 byte of verification character is less than the minimum code reading length limit (default minimum code reading character is 3 characters), the code reading will fail.

For example, in the current module settings, the minimum code reading length for Codabar is 3 bytes, without transmission of verification characters. In this case, it will be impossible to read a Codabar with a total length of 3 bytes that includes a verification barcode!

START AND END SYMBOLS

Codabar barcodes have one byte of data at the beginning and end as start and stop characters, which are one of the four characters "A", "B", "C", or "D". It can be set whether to transmit the start and stop characters along with the barcode data after successful reading.

077711
Output start and end symbols

077710
*Do not output start and end symbols

POSITIVE AND NEGATIVE COLOR SETTINGS

422620
*Positive color on

422621
Positive and negative color on

BARCODE LENGTH SETTINGS

The module can be configured to only read Codabar barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 4-60 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

Minimum length setting 51808x (X represents the length of the barcode)

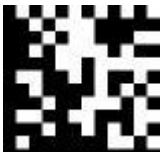
Maximum length setting 51908x (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^351808X (X represents the length of the barcode).

For example, the minimum reading is 5 characters, and the maximum reading are 9 characters;

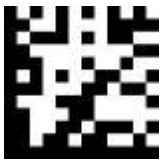
518085
Minimum 5 characters



519089
Maximum 9 characters

CODABLOCK A

ENABLE / DISABLE



264011
Enable

264010
*Disable

CODABLOCK F

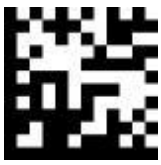
ENABLE / DISABLE

264111
Enable

264110
*Disable

CODE 128

ENABLE / DISABLE



001311
*Enable

001310
Disable

POSITIVE AND NEGATIVE COLOR SETTINGS

421520
*Positive color on

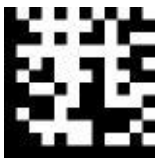
421521
Positive and negative color on

CODE128 CONTAMINATION

484041
Enable

484040
*Disable

CODE 128 SECURITY LEVEL



464620
*Low

464621
Medium

464622
High

BARCODE LENGTH SETTINGS

The module can be configured to only read Code 128 barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 1-80 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

Minimum length setting 52208x (X represents the length of the barcode)

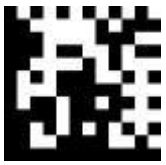
Maximum length setting 52308x (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^352208X (X represents the length of the barcode),

For example, the minimum reading is 3 characters, and the maximum reading is 10 characters

522083
Minimum 4 characters



5230810
Maximum 10 characters

CODE 11

ENABLE / DISABLE

000311
Enable

000310
*Disable

VERIFICATION

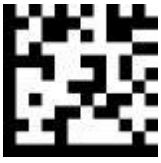
In Code 11 barcode data, verification characters are not mandatory. If verification characters are present, they can be the last 1 or 2 characters of the data. The verification character is the calculated value based on all data to verify whether the data is correct.

Therefore, if set to "**Disable**", the module will transmit all barcode data normally.

005611
*Enable

005610
Disable

080510
A check bit

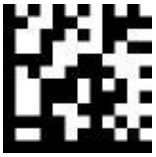


080511
*Two check bits

TRANSMIT VERIFICATION CHARACTERS

If set to "**Do not transmit verification**", if the data length minus 1 byte of verification character is less than the minimum code reading length limit (default minimum code reading character is 3 characters), the code reading will fail.

For example, in the current module settings, the minimum code for Code 11 is 3 bytes, without transmission of verification characters. In this case, it will be impossible to read a Code 11 with a total length of 3 bytes!



077311
*Transmit check bits

077310
Do not transmit check bits

BARCODE LENGTH SETTINGS

The module can be configured to only read Code 11 barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 4-80 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

Minimum length setting 51608x (X represents the length of the barcode)

Maximum length setting 51708x (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^351608X (X represents the length of the barcode),

For example, the minimum reading is 4 characters, and the maximum reading is 9 characters;

516084
Minimum 4 characters

517089
Maximum 9 characters

CODE 39

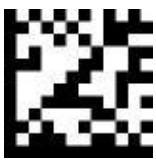
ENABLE / DISABLE

001111
*Enable

001110
Disable

FULL ASCII

Enable Code 39 Full ASCII to open the function of reading complete ASCII characters



002711
*Enable

002710
Disable

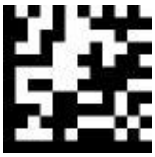
VERIFICATION

In Code 39 barcode data, verification characters are not mandatory. If verification characters are present, they are always the last byte of the data. The verification character is the calculated value of all data except the verification character itself, used to verify whether the data is correct.

If set to "**No verification**", the module will transmit all barcode data normally.

If set to "**Enable verification without transmitting verification**", the module will verify the last digit of the barcode, and if the verification passes, it will transmit normal data except for the last verification character. If the verification fails, it will not send the barcode content.

If set to "**Enable verification and transmit verification**", the module will verify the last digit of the barcode, and if the verification passes, the verification character will be transmitted as the last digit of the normal data. If the verification fails, it will not send the barcode content.



390022
Enable verification without transmitting verification

390020
*No verification

390021
Enable verification and transmit verification

If set to "**Enable verification without transmitting verification**", if the data length minus 1 byte of verification character is less than the minimum code reading length limit (default minimum code reading character is 3 characters), the code reading will fail.

For example, in the current module settings, the minimum code reading length for Code 39 is 3 bytes, without transmission of verification characters. In this case, it will be impossible to read a Code 39 with a total length of 3 bytes!

START AND END CHARACTERS

You can set whether to transmit the start and end characters along with the barcode data after successful code reading.

390211
Output start and end symbols

390210
*Do not output start and end symbols

POSITIVE AND NEGATIVE COLOR SETTINGS

422220
*Positive color on

422221
Positive and negative color on

BARCODE LENGTH SETTINGS

The module can be configured to only read Code 39 barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 1-80 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length of 55 is supported

Minimum length setting 52608x (X represents the length of the barcode)

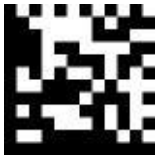
Maximum length setting 52708x (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^352608X (X represents the length of the barcode),

For example, the minimum reading is 3 characters, and the maximum reading is 12 characters;

526083
Minimum 3 characters

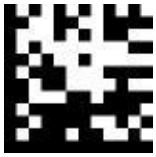


5270812
Maximum 12 characters

CODE 32

Before configuration, Code 39 must be enabled

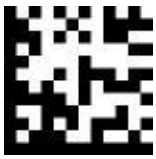
ENABLE / DISABLE



002511
Enable

002510
*Disable

PREFIX CHARACTER OUTPUT / OFF

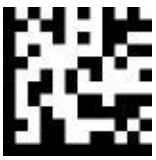


482311
Enable

482310
*Disable

CODE 93

ENABLE / DISABLE

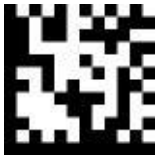


001211
Enable

001210
*Disable

POSITIVE AND NEGATIVE COLOR SETTINGS

422020
*Positive color on



422021
Positive and negative color on

BARCODE LENGTH SETTINGS

The module can be configured to only read Code 39 barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 1-80 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length of 55 is supported

Minimum length setting 52608x (X represents the length of the barcode)

Maximum length setting 52708x (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^352608X (X represents the length of the barcode),

For example, the minimum reading is 3 characters, and the maximum reading is 12 characters;

524085
Minimum 5 characters

525089
Maximum 9 characters

EAN/UPC

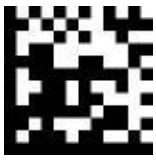
ENABLE / DISABLE

001611
*Enable

001610
Disable

2-DIGIT SUPPLEMENT CODE ENABLE

012711
Enable



012710
*Disable

5-DIGIT SUPPLEMENTAL CODE ENABLE

012611
Enable

012610
*Disable

ALL UPC/EAN CODES MUST HAVE SUPPLEMENTAL CODES

012311
Enable

012310
*Disable

POSITIVE AND NEGATIVE COLOR SETTINGS

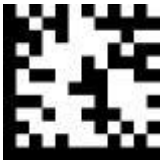
421020
*Positive color

421021
Positive and negative color

QUIET ZONE

482020
*Normal

482021
Narrow quiet zone



482022
No quiet zone

SUPPLEMENTAL CODE SPACES

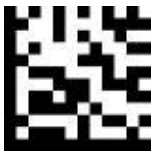
012011
Add spaces

012010
Remove spaces

EAN-8

ENABLE / DISABLE

002411
*Enable



002410
Disable

TRANSMIT VERIFICATION CHARACTERS

The EAN-8 barcode data is fixed at 8 bytes, with the last byte being the checksum character.

079011
*Output EAN-8 check digit

079010
Do not output EAN-8 check digit

EAN-8 CONVERSION TO EAN-13 ENABLE

Convert the EAN-8 to an EAN-13 type barcode, and then process the barcode information according to EAN-13 settings.

075211
Enable

075210
*Disable

TRANSMIT LEADING CHARACTERS

490110
*Output leading characters

490111
Do not output leading characters

EAN-13

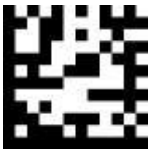
ENABLE / DISABLE

002111
*Enable

002110
Disable

TRANSMIT VERIFICATION CHARACTERS

079211
*Output check bits



079210
Do not output
check bits

TRANSMIT LEADING CHARACTERS

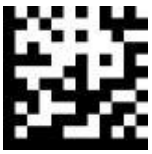
490210
Output leading characters

490211
Do not output
leading characters

UPC-A

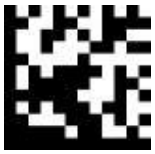
ENABLE / DISABLE

002611
*Enable



002610
Disable

TRANSMIT VERIFICATION CHARACTERS



075711
*Output check bits

075710
Do not output
check bits

UPC-A NUMBER SYSTEM CHARACTER ENABLE

075111
*Output

075110
Disable

UPC-A CONVERSION TO EAN-13 ENABLE

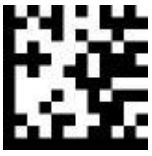
075411
Enable

075410
*Disable

UPC-E0

ENABLE / DISABLE

002011
*Enable



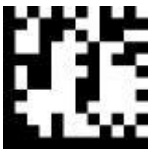
002010
Disable

TRANSMIT VERIFICATION CHARACTERS

075611
Output check bits

075610
*Do not output check bits

TRANSMIT LEADING CHARACTERS



075311
Output leading characters

075310
*Do not output leading characters

The leading characters are part of the UPC symbol and include the country code (for the United States, "0") and the system character ("0")

UPC-E CONVERSION TO UPC-A

Convert the UPC-E to a UPC-A type barcode, and then process the barcode information according to UPC-A settings.

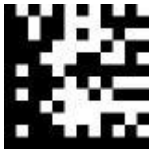
075511
UPC-E extended to 12 bits

075510
*Disable UPC-E extension to 12 bits

UPC-E1

ENABLE / DISABLE

459211
Enable



459210
*Disable

GS1 DATABAR EXPANDED

ENABLE / DISABLE

004511
Enable

004510
*Disable

BARCODE LENGTH SETTINGS

The module can be configured to only read GS1 DataBar Expanded barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 4-74 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

Minimum length setting 53408x (X represents the length of the barcode)

Maximum length setting 53508x (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^353408X (X represents the length of the barcode),

For example, the minimum reading is 3 characters, and the maximum reading is 26 characters;

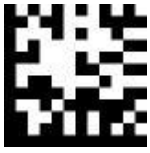
534083
Minimum 3 characters

5350826
Maximum 26 characters

GS1 DATABAR LIMITED

ENABLE / DISABLE

004411
Enable



004410
*Disable

GS1 DATABAR OMNIDIRECTIONAL

ENABLE / DISABLE

004311
Enable

004310
*Disable

INTERLEAVED 2 OF 5

ENABLE / DISABLE

001511
*Enable

001510
Disable

VERIFICATION

In Interleaved 2 of 5 barcode data, verification characters are not mandatory. If verification characters are present, they are always the last byte of the data. The verification character is the calculated value of all data except the verification character itself, used to verify whether the data is correct.

If set to "**No verification**", the module to transmit all barcode data normally.

If set to "**Enable verification without transmitting verification**", the module will verify the last digit of the barcode, and if the verification passes, it will transmit normal data except for the last verification character. If the verification fails, it will not send the barcode content.

If set to "**Enable verification and transmit verification**", the module will verify the last digit of the barcode, and if the verification passes, the verification character will be transmitted as the last digit of the normal data. If the verification fails, it will not send the barcode content.

389021
Enable verification without transmitting verification

389020
*No verification

389022
Enable verification and transmit verification

If set to "**Enable verification without transmitting verification**", if the data length minus 1 byte of verification character is less than the minimum code reading length limit (default minimum code reading character is 3 characters), the code reading will fail.

For example, in the current module settings, the minimum code reading length for Interleaved 2 of 5 is 3 bytes, without transmission of verification characters. In this case, it will be impossible to read an Interleaved 2 of 5 with a total length of 3 bytes!

POSITIVE AND NEGATIVE COLOR SETTINGS

422420
*Positive color on

422421
Positive and negative color on

BARCODE LENGTH SETTINGS

The module can be configured to only read Interleaved 2 of 5 barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 4-80 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

Minimum length setting 52008x (X represents the length of the barcode)

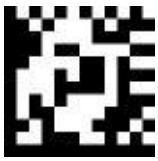
Maximum length setting 52108x (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^352008X (X represents the length of the barcode),

For example, the minimum reading is 4 characters, and the maximum reading is 10 characters;

520084
Minimum 4 characters



5210810
Maximum 10 characters

BRAZILIAN BANKING CODE (FEBRABAN)

ENABLE / DISABLE

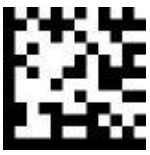
490011
Enable

490010
*Disable

MATRIX 2 OF 5

ENABLE / DISABLE

000511
Enable



000510
*Disable

VERIFICATION

In Matrix 2 of 5 barcode data, verification characters are not mandatory. If verification characters are present, they are always the last byte of the data. The verification character is the calculated value of all data except the verification character itself, used to verify whether the data is correct.

If set to "**No verification**", the module to transmit all barcode data normally.

If set to "**Enable verification without transmitting verification**", the module will verify the last digit of the barcode, and if the verification passes, it will transmit normal data except for the last verification character. If the verification fails, it will not send the barcode content.

If set to "**Enable verification and transmit verification**", the module will verify the last digit of the barcode, and if the verification passes, the verification character will be transmitted as the last digit of the normal data. If the verification fails, it will not send the barcode content.

078222
Enable verification without transmitting verification

078221
Enable verification and transmit verification

078220
*No verification

If set to "**Enable verification without transmitting verificatio**n", if the data length minus 1 byte of verification character is less than the minimum code reading length limit (default minimum code reading character is 3 characters), the code reading will fail.

For example, in the current module settings, the minimum code reading length for Matrix 2 of 5 is 3 bytes, without transmission of verification characters. In this case, it will be impossible to read a Matrix 2 of 5 with a total length of 3 bytes!

BARCODE LENGTH SETTINGS

The module can be configured to only read Matrix 2 of 5 barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 4-80 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

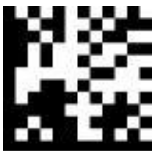
Minimum length setting 51208x (X represents the length of the barcode)

Maximum length setting 51308x (X represents the length of the barcode)

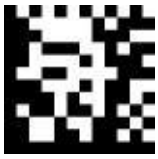
Create configuration barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^351208X (X represents the length of the barcode),

For example, the minimum reading is 3 characters, and the maximum reading is 10 characters;



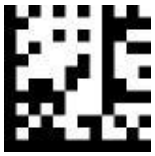
512083
Minimum 3 characters



5130810
Maximum 10 characters

MSI

ENABLE / DISABLE



002211
Enable

002210
*Disable

BARCODE LENGTH SETTINGS

The module can be configured to only read MSI barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 4-48 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

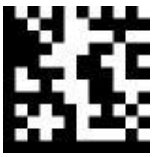
Minimum length setting 53208x (X represents the length of the barcode)

Maximum length setting 53308x (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^353208X (X represents the length of the barcode),

For example, the minimum reading is 6 characters, and the maximum reading is 10 characters;



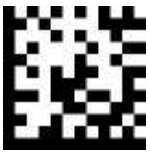
532086
Minimum 6 characters

5330810
Maximum 10 characters

STRAIGHT 2 OF 5 INDUSTRIAL

ENABLE / DISABLE

001011
Enable



001010
*Disable

BARCODE LENGTH SETTINGS

The module can be configured to only read Straight 2 of 5 Industrial barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 4-80 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

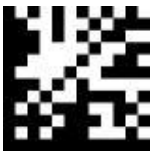
Minimum length setting 52808x (X represents the length of the barcode)

Maximum length setting 52908x (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^352808X (X represents the length of the barcode),

For example, the minimum reading is 3 characters, and the maximum reading is 12 characters;

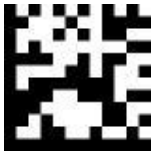


528083
Minimum 3 characters

5290812
Maximum 12 characters

TELEPEN

ENABLE / DISABLE



000711
Enable

000710
*Disable

BARCODE LENGTH SETTINGS

The module can be configured to only read Telepen barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 1-60 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

Minimum length setting 51008x (X represents the length of the barcode)

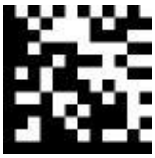
Maximum length setting 51108x (X represents the length of the barcode)

Create Configuration Barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^351008X (X represents the length of the barcode),

For example, the minimum reading is 5 characters, and the maximum reading is 12 characters;

510085
Minimum 5 characters

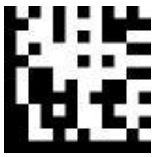


5110812
Maximum 12 characters

TRIOPTIC CODE

Trioptic Code is a special Code 39 code system that only reads 6-digit barcodes.

ENABLE / DISABLE



003211
Enable

003210
*Disable

PHARMACODE

ENABLE / DISABLE

469511
Enable

469510
*Disable

UK PLESSEY

ENABLE / DISABLE

485611
Enable

485610
*Disable

ITF-14

ENABLE / DISABLE

306211
Enable

306210
*Disable

COMPOSITE

Composite is a composite code, which is ineffective when used alone. It requires enabling the micro PDF and RSS configuration codes.

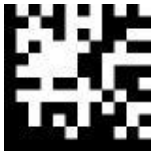
ENABLE / DISABLE

400011
Enable

400010
*Disable

AZTEC CODE

ENABLE / DISABLE



006011
Enable

006010
*Disable

POSITIVE AND NEGATIVE COLOR SETTINGS

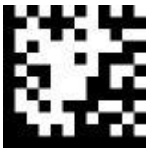
006111
Positive and negative color on

006110
*Positive color on

DATA MATRIX CODE

ENABLE / DISABLE

005311
*Enable



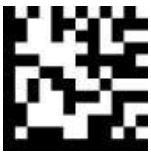
005310
Disable

POSITIVE AND NEGATIVE COLOR SETTINGS

005211
*Positive and negative color on

005210
Positive color on

CONTRAST SETTINGS



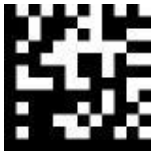
302520
Low contrast off

302521
*Low contrast level 1

302522
Low contrast level 2

MATRIX DM CODE

ENABLE / DISABLE

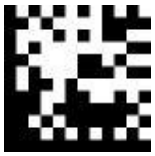


419311
Enable

419310
*Disable

DPM (DOT PEEN)

ENABLE / DISABLE



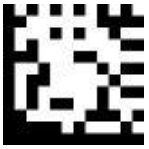
005011
Enable

005010
*Disable

DM ECC140

ENABLE / DISABLE

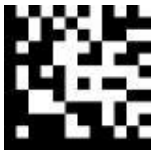
005411
Enable



005410
*Disable

DOTCODE

ENABLE / DISABLE



419111
Enable

419110
*Disable

POSITIVE AND NEGATIVE COLOR SETTINGS

400210
*Positive and negative color on

400211
Positive color on

MAXICODE

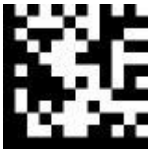
ENABLE / DISABLE

006411
Enable

006410
*Disable

HANXIN

ENABLE / DISABLE



273111
Enable

273110
*Disable

PDF417

ENABLE / DISABLE

000011
*Enable

000010
Disable

POSITIVE AND NEGATIVE COLOR SETTINGS

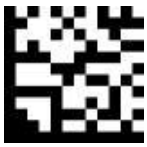
427020
*Positive color on

427021
Positive and negative color on

MICROPDF417

ENABLE / DISABLE

004711
Enable

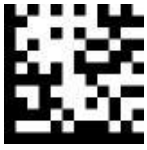


004710
*Disable

QR CODE

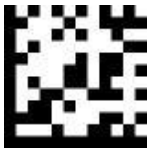
ENABLE / DISABLE

006211
*Enable



006210
Disable

POSITIVE AND NEGATIVE COLOR SETTINGS

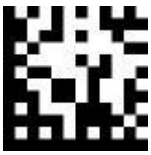


006310
*Positive color on

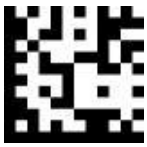
006311
Positive and negative color on

URL QR CODE

ENABLE / DISABLE

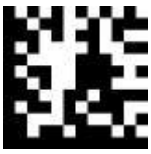


408010
Enable



408011
*Disable

QUIET ZONE SETTINGS



484420
*Disable

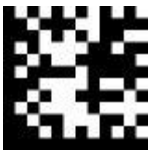
484421
Positive color quiet zone on

484422
Negative color quiet zone on

484423
Positive and negative color quiet zone on

RMQR CODE

ENABLE / DISABLE



485311
Enable

485310
*Disable

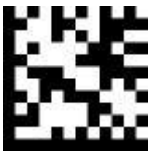
POSITIVE AND NEGATIVE COLOR SETTINGS

485411
Positive and negative color on

485410
*Positive color on

MICRO QR CODE

ENABLE / DISABLE

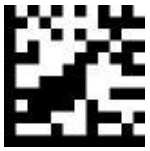


006511
Enable

006510
*Disable

正反色配置

006611
Positive and negative color on



006610
*Positive color on

GM

ENABLE / DISABLE

273011
Enable

273010
*Disable

HONG KONG 2 OF 5 (CHINA POST)

ENABLE / DISABLE

003611
Enable

003610
*Disable

Note: When scanning any postal code, the other postal code functions need to be disabled

BARCODE LENGTH SETTINGS

The module can be configured to only read China Post barcodes with lengths between (including) the minimum and maximum lengths. The maximum length limit is 4-80 characters, if the maximum length is less than the minimum length, the barcode cannot be read. If the maximum length is equal to the minimum length, only this length is supported

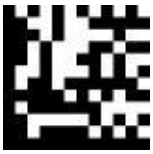
Minimum length setting 51408x (X represents the length of the barcode)

Maximum length setting 51508x (X represents the length of the barcode)

Create configuration barcode

Select Data Matrix code, add the "^3" character before the data, such as: set minimum length to ^351408X (X represents the length of the barcode),

For example, the minimum reading is 6 characters, and the maximum reading is 9 characters;



514086
Minimum 6 characters

515089
Maximum 9 characters

KOREA POST

ENABLE / DISABLE

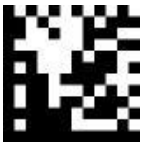
428011
Enable

428010
*Disable

GS1-AI

GS1-AI currently supports four code systems, GS1-128, GS1-DataBar, GS1-QR, and GS1-DM, disabled by default;

309080
*Disable



309081
Enable GS1-128 only

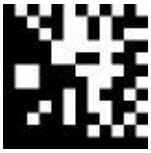
309082
Enable GS1-DATABAR only

309084
Enable GS1-QR only

309088
Enable GS1-DM only

3090815
Enable all

2D POSTAL



536080
*Disable

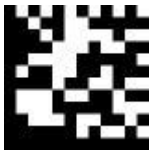
536081
Australia Postal

536082
Royal INFOMAIL

536083
Japan Postal

536084
KIX CODE

536085
PLANETCODE



536086
POSTNET

536087
Britain Postal

536088
UPU

5360810
USPS 4STATE

OCR

Currently, only OCR-A and OCR-B are supported

ENABLE / DISABLE

427711
Enable

427710
*Disable

OCR TEMPLATE

Modify OCR template configuration function

Select QR code, using two characters to represent one digit, still only supporting a maximum of 19 digits of configuration content

The first digit is the OCR type:

01.OCR-A

02.OCR-B

The next eighteen digits are the template:

02. Line break

05. Number

06. Letter

07. Letter/Number

08. Any character

14. Fixed Length (followed by a parameter indicating the length)

Examples:

1. Scan ID card

^3^399999502071418

2. Scan two lines of 44-digit passports

^3^39999950208144402081444

Analysis:

02 08 14 44 02 08 14 44

OCR-B Any character Fixed length Length Line break Any character Fixed length Length

3. Scan three lines of 30-digit passports

^3^399999502081430020814300208143002081430

SPECIAL FUNCTION CONFIGURATION (EXAMPLE)

The programming mode is a prefix/suffix that can be edited and output by the user. The prefix can be added with CODE ID, AIM ID, and special character output. Users need to scan the configuration to enter the programming mode first, and then scan and configure according to the barcode configuration process. Two examples of programming modes for configuration are attached for reference.

Add a prefix/suffix. (Prefix and suffix each support up to 10 characters at most)

This chapter lists some configuration examples for module usage, specifically explaining the configuration methods for special functions, making it convenient for users to perform actual operations and become familiar with the product's use. You only need to scan the corresponding configuration codes in order as required to complete the special function configuration.

ADD PREFIX / SUFFIX

Support adding up to ten characters separately

Add Prefix Process:

Example 1, add a byte prefix, the character is “(”, corresponding ASCII decimal number is 040.

1. Scan the "Enter/exit programming mode" configuration code to start the configuration.
2. Scan "Configure the first byte of the prefix".
3. Scan byte code values "0", "4", "0" sequentially.
4. Scan the "Enter/exit programming mode" configuration code to save.

Add Suffix Process:

Example 2, add a byte suffix, the character is “)”, corresponding ASCII decimal number is 041.

1. Scan the "Enter/exit programming mode" configuration code to start the configuration.
2. Scan "Configure the first byte of the suffix".
3. Scan byte code values "0", "4", "1" sequentially.
4. Scan the "Enter/exit programming mode" configuration code to save.

Add Multiple-byte Prefix:

Example 3, add a multiple-byte prefix

1. Scan the "Enter/exit programming mode" configuration code to start the configuration.
2. Scan "Configure the first byte of the prefix".
3. Scan the first byte code value.
4. Scan "Configure the second byte of the prefix".
5. Scan the second byte code value.
6. Repeat steps 4, 5, and so on...
7. Scan the "Enter/exit programming mode" configuration code to save.

Add Multiple-byte Suffix:

Similar to adding multiple-byte prefixes.

Clear All Prefixes:

Scan the "Clear All Prefixes" barcode.

Clear All Suffixes:

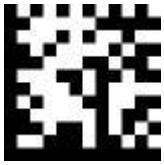
Scan the "Clear All Suffixes" barcode.

P999999
Enter/exit programming mode

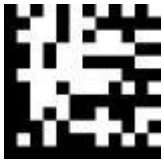
ADD PREFIX

035090
Configure 1st byte of the prefix

036090
Configure 2nd byte of the prefix



037090
Configure 3rd byte of the prefix

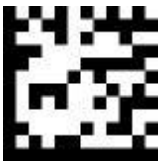


038090
Configure 4th byte of the prefix

039090
Configure 5th byte of the prefix

040090
Configure 6th byte of the prefix

041090
Configure 7th byte of the prefix



042090
Configure 8th byte of the prefix

043090
Configure 9th byte of the prefix

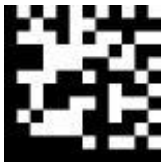
044090
Configure 10th byte of the prefix

P999985
Clear all prefixes

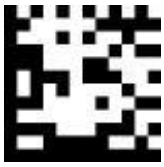
P999999
Enter/exit programming mode

ADD SUFFIX

045090
Configure 1st byte of the suffix

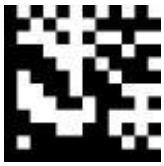


046090
Configure 2nd byte of the suffix



047090
Configure 3rd byte of the suffix

048090
Configure 4th byte of the suffix



049090
Configure 5th byte of the suffix

050090
Configure 6th byte of the suffix

051090
Configure 7th byte of the suffix

052090
Configure 8th byte of the suffix

053090
Configure 9th byte of the suffix

054090
Configure 10th byte of the suffix

P99984
Clear all suffixes

CODE ID

ENABLE / DISABLE

428411
Enable

428410
*Disable

AIM ID

ENABLE / DISABLE

428511
Enable

428510
*Disable

INVISIBLE CHARACTER OUTPUT

It is recommended to use serial port mode when transmitting invisible characters, as USB HID may not be able to transmit certain special characters and may affect normal use.

ENABLE / DISABLE

4207111
Enable

420710
*Disable

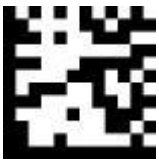
GS CONTROL CHARACTER CONVERSION

Note: The GS character in the ASCII code table means "Group separator," and the transmission of the GS character requires that the barcode data contains the GS character.

463411
Enable

463410
*Disable

463040
*Do not transmit GS characters



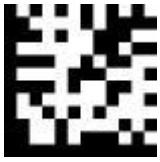
463049
Transmit GS characters

463045
Transmit <GS> characters

463046
Transmit (GS) characters

463047
Transmit GS` characters

463048
Transmit `GS` characters



463041
Transmit | character

Target Test Code

Example: The data read from the transmission of the test code in the factory state is: 12345678ABCDEFGH; The data set with "transmission (GS) character" is: 12345678(GS)ABCDEFGH; To cancel the transmission of GS character, please read the "Do not transmit GS character" setting.

SEND IN CTRL + X MODE

After enabling this feature, ASCII control characters become output Ctrl combination control keys

ENABLE / DISABLE

459111
Enable

459110
*Disable

Control Character Correspondence Table

None-printable ASCII control characters			Keyboard Control + ASCII (CTRL + X) Mode		
			Control + x Mode Off	Windows Mode Control + X Mode On	
DEC	HEX	Char		CTRL+X	CTRL+X function
0	00	NUL	NULL	CTRL+@	
1	01	SOH	NP Enter	CTRL+A	
2	02	STX	Caps Lock	CTRL+B	
3	03	ETX	Right Arrow	CTRL+C	
4	04	EOT	Up Arrow	CTRL+D	
5	05	ENQ	NULL	CTRL+E	
6	06	ACK	NULL	CTRL+F	
7	07	BEL	Enter	CTRL+G	
8	08	BS	Left Arrow	CTRL+H	
9	09	HT	Tab	CTRL+I	
10	0A	LF	Down Arrow	CTRL+J	
11	0B	VT	Tab	CTRL+K	
12	0C	FF	Backspace	CTRL+L	
13	0D	CR	Enter/Ret	CTRL+M	
14	0E	SO	Insert	CTRL+N	
15	0F	SI	ESC	CTRL+O	
16	10	DLE	F11	CTRL+P	
17	11	DC1	Home	CTRL+Q	
18	12	DC2	PrtScn	CTRL+R	
19	13	DC3	Delete	CTRL+S	
20	14	DC4	Tab+Shift	CTRL+T	
21	15	NAK	F12	CTRL+U	
22	16	SYN	F1	CTRL+V	
23	17	ETB	F2	CTRL+W	
24	18	CAN	F3	CTRL+X	
25	19	EM	F4	CTRL+Y	
26	1A	SUB	F5	CTRL+Z	
27	1B	ESC	F6	CTRL+[	
28	1C	FS	F7	CTRL+\	
29	1D	GS	F8	CTRL+]	
30	1E	RS	F9	CTRL+^	
31	1F	US	F10	CTRL+-	

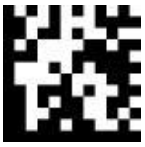
For example: Return carriage, the factory default is Control+X Mode Off transmission, when the Enter key on the keyboard is pressed, in the Control + X Mode On mode, it is equivalent to pressing CTRL+G.

SEND VIA ALT + NUMERIC KEYPAD

After enabling this function, it changes to ALT + numeric keypad combination output.

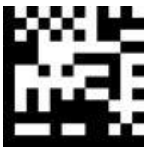
ENABLE / DISABLE

404011
Enable



404010
*Disable

SEND DECODING FAILURE MESSAGE



206711
Enable

206710
*Disable

After enabling this feature, a decoding failure outputs NO READ

DATA FORMAT EDITING

You can use the "Data Format Editor" to change the module's output.

For example, you can use the data format editor to move, find, insert, delete, replace, and select output characters at specific positions when scanning bar code data.

The selections on the following page are only used when changing the output. The default data format settings are not enabled.

When creating a format, you must use the "**Add Format Step**" to configure.

p999999
Enter/exit programming mode

999992
Add Format step

DATA EDITING ENABLE

ENABLE / DISABLE

599011
Enable

299010
*Disable

SWITCH FORMAT

You can edit 4 sets of settings, switching format (0, 1, 2, 3) corresponds to the following configuration code Format ID switch, the same format ID will replace the previous editing settings.

599120
0

599121
1

599122
2

599123
3

ADD FORMAT STEP

Single Command

1. Scan the "**Enter/exit programming mode**" configuration code to start the configuration
2. Scan the "**Add Format Step**" setup code
3. Scan the formatID (0, 1, 2, 3, can edit and save 4 types of format switching) -- Scan one of the hexadecimal configuration codes 0, 1, 2, 3; other configurations are invalid
4. Scan the applicable format code syatems (two digits) as shown in the appendix, such as QR code 73
5. Scan the barcode digits for the applicable format (maximum number of characters 9999)
6. Scan format command (4th item format command content)
7. Scan the "**Enter/exit programming mode**" configuration code to save the configuration

Batch Command

QR code, with the header ^3^3999992 indicating the batch processing command header, followed by formatID, codeID, digit length, and command.

Example: Insert two carriage returns before AB in QR code

Sample code:

Batch processing configuration code:

FORMAT COMMAND

The format command has a maximum length of 96 characters, the length of the string to be searched or inserted needs to adapt to the limit

Move

A1: Move the cursor to the beginning;

A2: Move the cursor to the end;

A3nn: The cursor moves backward by n characters; for example, A303, the cursor moves backward by 3 positions.

A4nn: The cursor moves forward by n characters; for example, A403, the cursor moves forward by 3 positions.

Search

B1xx: The cursor searches backward for a character and moves to that character. For example, B144;

B2xx: The cursor searches forward for a character and moves to that character. For example, B244;

B3nnxxxx: The cursor searches backward for a string and moves to that string. For example, B3024142;

B4nnxxxx: The cursor searches forward for a string and moves to that string. For example, B4024142;

B5xx: Find a character and move the cursor behind the character. For example, B53D;

Insert

C1nnxx: Insert n identical characters after the cursor; for example, for C10241, insert two “A”s.

C2nnxxxx: Insert a string of length n after the cursor; for example, for C2024142, insert "AB".

Delete

D1nn: Delete the next n characters after the cursor;

D2nn: Deletes the n characters before the cursor; the cursor will move;

D3xx: Deletes the characters between the cursor and the character “xx” (where “xx” is a single character); for example, D341 deletes the characters between the cursor and A;

D4nnxxxx: Deletes characters between the cursor and "xxxx", "xxxx" being n characters; for example, D3024142 deletes characters between the cursor and AB.

Replace Character

E4nnxxxx: Replace the specified characters;

For example, E402300D;

There are a total of two characters after '02'; ‘30’ is the ASCII code for ‘0’, ‘0D’ is the ASCII code for ‘Carriage Return’; replace ‘0’ with ‘Carriage Return’.

For example, E40430413142;

There are a total of four characters after '04'; ‘30’ is the ASCII code for ‘0’, ‘41’ is the ASCII code for ‘A’; replace ‘0’ with ‘A’; ‘31’ is the ASCII code for ‘1’, ‘42’ is the ASCII code for ‘B’, replace ‘1’ with ‘B’.

Replace String

E1mmXXXX...nnYYYY...106

Where mm indicates the length of the string to be replaced, XXXX.... represents the string to be replaced; nn indicates the length of the replacement string, YYYY..... represents the replacement string

Example: Replace the invisible GS character with the visible <GS>

The configuration code is ^3^39999920999999E1011D043C47533E

Select & Output

F2nn: Select and output the n characters after the cursor

F3xx: Select and output the character(s) between the cursor and the character 'x'

F4nnxxxx : Select the characters between the cursor and "xxxx", where "xxxx" is n characters long; for example, F4024142, output the characters between the cursor and AB

F5: Only output barcode data that starts with the specified string; if a barcode starting with a non-specified string is scanned, it will not be output and an error prompt sound will be emitted

Usage: F5nnxxxx F5025458: Only outputs barcodes starting with "TX”

Example: ^3^39999920999999F5025458

F6: Barcodes starting with the specified string will not be output and an error sound will be prompted; other barcodes will be output normally
Usage: F6nnxxxx F6025458: Barcodes starting with "TX" are not output

CODE SYSTEM ID

Code System	HHPID	ID
ALL		99
Airline 2 of 5	f	51
Aztec 2 of 5	z	7A
Codabar	a	61
Codablock A	V	56
Codablock F	q	71
Code 128	j	6A
Code 11	h	68
Code 32	<	3C
Code 39	b	62
Code 93	i	69
Data Matrix	w	77
EAN-8	D	44
EAN-13	d	64
UPCA	c	63
UPCE	E	45
GS1 DataBar Expanded	}	7D
GS1 DataBar Limited	{	7B
GS1 DataBar	y	79
HANXIN	H	48
HongKong 2 of 5 (China post)	Q	51
Interleaved 2 of 5	e	65
Matrix 2 of 5	m	6D
Maxicode	x	78
MSI	g	67
PDF417	r	72
MicroPDF417	R	52
QR Code	s	73
Micro QR Code	-	2D
Straight 2 of 5 Industrial	f	66
Telepen	t	74
GM	X	58

BATCH PROCESSING SETTINGS

When a module requires multiple settings, it can be cumbersome to set each one individually. In such cases, we can store all the necessary information in a barcode, and the device can read the barcode to complete the multiple settings.

The following are the guidelines for batch processing settings:

1. The format of each command in the batch command is command + parameter.

2. The command ends with a semicolon, and note that there should be no space between commands.

3. Create a QR code for this command in the coding software.

QR code, with header ^3^3999991xxxxxx; xxxxxx; represents the menu batch command header; batch commands are separated by semicolons and end with a semicolon.

Note: Commands must be regular commands that do not start with P

For example, if the commands are to turn off the lighting (command: 500210), read code in read mode (command: 183443), decode short sound (command: 184411), and cancel return (command: 166310), then the content of the batch commands would be as follows:

^3^3999991500210;183443;184411;166310;

Batch Processing Setup Steps

Scan batch processing configuration code:

APPENDIX

BYTECODE VALUE (HEXADECIMAL)

0

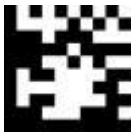
1

2

3

4

5



6

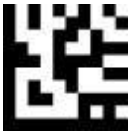
7

8

9

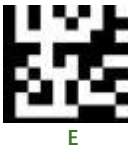
A

B



C

D



E

F

CODE ID TABLE

Code System	Code ID
Code128	j
GS1-128	I
Code 39	b
EAN-8	D
EAN-13	d
UPC-E	E
UPC-A	c
interleaved 2 of 5	e
Codabar	a
RSS-Expanded	]
QR Code	s
PDF417	r
Data Matrix	w
Aztec Code	z
Maxicode	x
HANXIN	H
KIX Post	K
matrix 2 of 5	m
industrial 2 of 5	f
IATA 2 of 5	f
Chinese Post 2 of 5	Q
code 11	h
MSI	g
Code 93	i
RSS-14	y
RSS-Limited	[
GM Code	X
Micro QR	s
USPS Postnet	P
USPS Planet	L
Australian Postal	A

AIM ID TABLE

Code System	AIM ID	Possible AIM ID limit parameter (m)
Code 128	]C0	
GS1-128(UCC/EAN-128)	]C1	
EAN-8	]E4	
EAN-8 with Addon	]E3	
EAN-13	]E0	
EAN-13 with Addon	]E3	
UPC-E	]E0	
UPC-E with Addon	]E3	
UPS-A	]E0	
UPS-A with Addon	]E3	
Interleaved 2 of 5	]Im	0, 1, 3
ITF-14	]Im	1, 3

ITF-6	]Im	1, 3
Matrix 2 of 5	]X0	
Code 39	]Am	0, 1, 3, 4, 5, 7
Codabar	]Fm	0, 2, 4
Code 93	]G0	
ISSN	]X0	
ISBN	]X0	
Industrial 25	]S0	
Standard 25	]R0	
COOP 25	]X0	
Deutsche 12	]X0	
Deutsche 14	]X0	
AIM 128	]C2	
ISBT 128	]C4	
Plessey	]P0	
Code 11	]Hm	0, 1, 3
MSI Plessey	]Mm--]M5	0, 1, 7, 8, 9
GS1 Databar (RSS)	]e0	
PDF417	]Lm	0 – 2
QR Code	]Qm	0 – 6
Aztec	]zm	0 – 9, A – C
Data Matrix	]dm	0 – 6
Maxicode	]Um --]X0	0 – 3
HANXIN	]X0	
GM Code	]gm --]X0	0 – 9
Code One	]X0	
Micro PDF417	]L0	
Micro QR	]Q1	
USPS Postnet	]X0	
USPS Inteligent Mail	]X0	
Royal Mail	]X0	
USPS Planet	]X0	
KIS Post	]X0	
Australian Postal	]X0	
Specific OCR-B	]o2	
Passport OCR	]o2	

ASCII CODE TABLE

Decimal	Character	Decimal	Character	Decimal	Character	Decimal	Character
000	NUL	032	SP	064	@	096	‘
001	SOH	033	!	065	A	097	a
002	STX	034	“	065	B	098	b
003	ETX	035	#	067	C	099	c
004	EOT	036	$	068	D	100	d
005	ENQ	037	%	069	E	101	e
006	ACK	038	&	070	F	102	f
007	BEL	039	`	071	G	103	g
008	BS	040	(	072	H	104	h
009	HT	041	)	073	I	105	i
010	LF	042	*	074	J	106	j
011	VT	043	+	075	K	107	k
012	FF	044	,	076	L	108	l

013	CR	045	-	077	M	109	m
014	SOH	046	.	078	N	110	n
015	SI	047	/	079	O	111	o
016	DLE	048	0	080	P	112	p
017	DC1	049	1	081	Q	113	q
018	DC2	050	2	082	R	114	r
019	DC3	051	3	083	S	115	s
020	DC4	052	4	084	T	116	t
021	NAK	053	5	085	U	117	u
022	SYN	054	6	086	V	118	v
023	ETB	055	7	087	W	119	w
024	CAN	056	8	088	X	120	x
025	EM	057	9	089	Y	121	y
026	SUB	058	:	090	Z	122	z
027	ESC	059	;	091	[	123	{
028	FS	060	<	092	\	124	|
029	GS	061	=	093	]	125	}
030	RS	062	>	094	^	126	~
031	US	063	?	095	_	127	DEL

ASCII CODE EXTENDED CHARACTERS (CP-1252 ENCODING)

Decimal	Character	Decimal	Character	Decimal	Character	Decimal	Character
128	ε	160		192	À	224	à
129		161	¡	193	Á	225	á
130	‚	162	¢	194	Â	226	â
131	f	163	£	195	Ã	227	ã
132	„	164	Ω	196	Ä	228	ä
133	…	165	¥	197	Å	229	å
134	t	166	¦	198	Æ	230	æ
135	‡	167	§	199	Ç	231	ç
136	ˆ	168	¨	200	È	232	è
137	‰	169	©	201	É	233	é
138	Š	170	ª	202	Ê	234	ê
139	‹	171	«	203	Ë	235	ë
140	Œ	172	¬	204	Ì	236	ì
141		173		205	Í	237	í
142	Ž	174	®	206	Î	238	î
143		175	¯	207	Ï	239	ï
144		176	°	208	Ð	240	ð
145	‘	177	±	209	Ñ	241	ñ
146	’	178	²	210	Ò	242	ò
147	“	179	³	211	Ó	243	ó
148	”	180	´	212	Ô	244	ô
149	·	181	µ	213	Õ	245	õ
150	–	182	¶	214	Ö	246	ö
151	—	183	·	215	×	247	÷
152	˜	184	¸	216	Ø	248	ø
153	™	185	¹	217	Ù	249	ù
154	š	186	º	218	Ú	250	ú
155	›	187	»	219	Û	251	û
156	œ	188	¼	220	Ü	252	ü
157		189	½	221	Ý	253	ý

158	ž	190	¾	222	Þ	254	þ
159	Ÿ	191	¿	223	ß	255	ÿ