

# Generalscan Barcode Scanner

## Command Configuration Manual

Ver 1.0

3-15-2024

## Content

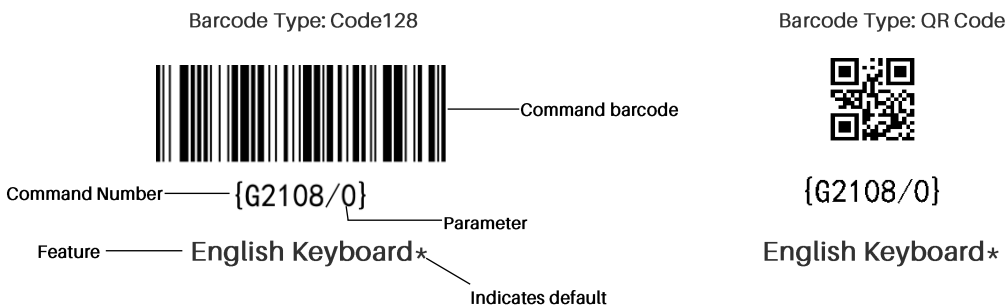
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## Overview

This document introduces the commands to configure Generalscan barcode scanner of model R1120, and series R152X, R352X, and R552X. It also explains how to use them. Command barcodes are presented in two formats according to different command category. Both formats are ASCII characters.

All the command barcodes in this article are introduced separately in 1D - Code128 and 2D - QR Code.



## Command Description

Format 1 - {G2126/5}

- {} <Prefix> and <Suffix>
- G <Generalscan Scanner>
- 2126 <Command Number>
- 5 <Parameter>

Format 2 - STX00000007ETX

- STX <STX>
- 00000007 <Command number>
- ETX <ETX>

**Note:** STX and ETX is special character. Please refer to the barcode generation guide in Appendix **I** when making barcode in this format.

# Command Parameter Defaults Table

Feature	Command	Parameter Range (Default*)		Parameter Definition	Default	Page Number
<b>System Function</b>						
Rest to default	STX10000001ETX	Null		Null	STX10000001ETX	<a href="#">P7</a>
Enter DFU Mode	{G1002/22308}	Null		Null	{G1002/22308}	<a href="#">P7</a>
Buzzer test	{G1068}	Null		Null	{G1068}	<a href="#">P7</a>
Automatic Shutdown time	{G1078/Parameter}	0~600(240*)		Second	{G1078/240}	<a href="#">P8</a>
Enter Sleep Mode	{G2105/ Parameter}	0: Disable 1: Enable (1*)		Null	{G2105/1}	<a href="#">P8</a>
Set Long Press Button Shutdown time	{G2126/ Parameter}	5-60(5*)		Second	{G2126/5}	<a href="#">P9</a>
Set vibration level	{G3008/ Parameter}	0-366(183*)		Level	{G3008/183}	<a href="#">P9 P10</a>
Set volume level	{G3010/ Parameter}	0-183(183*)		Level	{G3010/183}	<a href="#">P10 P11</a>
Keyboard layout	{G2108/ Parameter}	0: English (0*) 1: French 2: German 3: Spanish 4: Italian 5: Portuguese 6: Japanese		Language	{G2108/0}	<a href="#">P11 P12</a>
Auto trig mode	{G3003/ Parameter}	0-100(0*)		Millisecond	{G3003/0}	<a href="#">P12</a>
GS Application Identity	{G3013/ Parameter}	0:Disable(0*) 1:Enable		Null	{G3013/0*}	<a href="#">P13</a>
<b>Data Processing</b>						
Add prefix characters	{G2042/ Parameter1/ Parameter2}	Parameter1	0:Disable(0*) 1:Enable	Null	{G2042/0}	<a href="#">P14</a>
		Parameter2	0- 1character(0 x00*)	character		
Add suffix characters	{G2043/ Parameter1/ Parameter2}	Parameter1	0:Disable 1:Enable(1*)	Null	{G2043/1/(0x0D)(0x0A)}	<a href="#">P14 P15</a>
		Parameter2	0-2 character((0x 0D)(0x0A)*)	character		
Insert characters	{G2044/ Parameter1/ Parameter2/ Parameter3}	Parameter1	0:Disable(0*) 1:Enable	Null	{G2044/0}	<a href="#">P15 P16</a>
		Parameter2	0-barcode length(0*)	Number		
		Parameter3	0-10 characters(0 *)	character		
Delete character before barcode	{G3000/Parameter }	Less than barcode length(0*)		Number	{G3000/0}	<a href="#">P16 P17</a>
Delete character after barcode	{G3001/Parameter }	Less than barcode length(0*)		Number	{G3001/0}	<a href="#">P17</a>
Exchange characters	{G3012/ Parameter1/ Parameter2/ Parameter3}	Enable	0:Disable(0*) 1:Enable	Null	{G3012/0}	<a href="#">P18</a>
		Before exchange Character	0-1 character(0x 00*)	Before exchange Character		
		After exchange Character	0-1 character(0x 00*)	After exchange Character		
<b>Bluetooth</b>						
Bluetooth HID Mode	STX00000007ETX	Null	Null	Null	STX00000007ETX	<a href="#">P19</a>
Bluetooth SPP Mode	STX00000008ETX	Null	Null	Null	STX00000008ETX	<a href="#">P19</a>
Bluetooth BLE Mode	STX00000008ETX	Null	Null	Null	STX00000028ETX	<a href="#">P19</a>
Bluetooth SPP Master Mode	STX00000058ETX	Null	Null	Null	STX00000058ETX	<a href="#">P20</a>
Change Bluetooth name	{G1070/Parameter}	0-25 characters (GS- Barcode Scanner BT40*)		Bluetooth name	{G1070/ GS-Barcode Scanner BT40}	<a href="#">P20</a>
Read Bluetooth address	{G1076}	Null	Null	Null	{G1076}	<a href="#">P20 P21</a>
Clear Paired list	{G1079}	Null	Null	Null	{G1079}	<a href="#">P21</a>
Enable or Disable Popup of IOS software keyboard	{G1080}	Null	Null	Null	{G1080}	<a href="#">P21</a>
Change pair pin	{G1085/Parameter}	0-4 Numbers (1234*)		Pair pin	{G1085/1234}	<a href="#">P21 P22</a>

Modify Bluetooth HID speed	{G1082/Parameter1/Parameter2/Parameter3/Parameter4}	Parameter1	0	Fixed parameters	{G1082/0/0/15/0}	<a href="#">P22</a>
		Parameter2	0	Fixed parameters		
		Parameter3	15~200(15*)	Speed Level		
		Parameter4	0	Fixed parameters		
<b>USB</b>						
USB HID Mode	STX00000005ETX	Null	Null	Null	STX00000005ETX	<a href="#">P23</a>
USB VCP Mode	STX00000015ETX	Null	Null	Null	STX00000015ETX	<a href="#">P23</a>
<b>Device Information</b>						
Output Firmware version	{G1064}	Null	Null	Null	{G1064}	<a href="#">P24</a>
Output device ID	{G1065}	Null	Null	Null	{G1065}	<a href="#">P24</a>
Output battery level	{G1066}	Null	Null	Null	{G1066}	<a href="#">P24</a>
Output Serial number	{G2116}	Null	Null	Null	{G2116}	<a href="#">P25</a>
<b>Offline Storage Mode</b>						
Offline Storage Mode	STX1067010EnableETX	Enable	0:Disable(0*) 1:Enable	Null	STX10670100ETX	<a href="#">P26</a>
Amount of offline data	STX10670102ETX	Null	Null	Null	STX10670102ETX	<a href="#">P26</a>
Fast speed upload	STX10670103ETX	Null	Null	Null	STX10670103ETX	<a href="#">P26 P27</a>
Medium speed upload	STX10670105ETX	Null	Null	Null	STX10670105ETX	<a href="#">P27</a>
Slow speed upload	STX10670106ETX	Null	Null	Null	STX10670106ETX	<a href="#">P27</a>
Clear offline data	STX10670104ETX	Null	Null	Null	STX10670104ETX	<a href="#">P27 P28</a>

## User Preferences & Miscellaneous Options

### Reset to Default

Command Format - STX10000001ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used to restore the factory settings of the scanner. Scan the barcode below to clear customized configuration and restore back to factory settings.



STX 10000001 ETX

Reset to Default



STX 10000001 ETX

Reset to Default

---

### Enter DFU Mode

Command Format - {G1002/22308}

- Command Description - This command is intended for entering into scanner's firmware upgrading mode. Scan the barcode below to let the scanner enter into a mode of upgrading firmware, and the indicator is blue and green light blinks alternately.



{G1002/22308}

Enter DFU Mode



{G1002/22308}

Enter DFU Mode

Note: As to the details of upgrading firmware using DFU mode, please refer to [GS-TS-000005](#).

---

### Buzzer test

Command Format - {G1068}

- Command Description - This command is meant for testing if the scanner buzzer works or not. The buzzer will sound once when scan the barcode below.



{G1068}

Buzzer Test



{G1068}

Buzzer Test

---

## Automatic Shutdown Time

Command Format - {G1078/Parameter}

Parameter range - 0~600(240\*), the unit is "second" (default setting is 240 seconds). The higher the value, the longer the automatic shutdown time.

- Command Description - This command is applied to set the time of scanner not shut down or automatically shut down when the scanner is in Bluetooth mode but not connected and without any operation. Select and scan the barcode below, you can set not shutdown/shutdown time for scanner. (The time can be customized. As to the barcode generation method, please reference Appendix I)



{G1078/240}  
240S\*



{G1078/240}  
240S\*



{G1078/0}  
Disable Automatic Shutdown



{G1078/0}  
Disable Automatic Shutdown

## Enter Sleep Mode

Command Format - {G2105/Parameter}

Parameter Range - 0~1(1\*). "0" stands for "disable sleep mode". "1" stands for "enable sleep mode".

- Command Description - This command is employed to set if the scanner enter into sleep mode. Scanner will automatically enter into Bluetooth low energy mode once Bluetooth connected successfully. Select and scan the barcode below, enable/disable sleep mode can be set.



{G2105/1}  
Enable Sleep Mode\*



{G2105/1}  
Enable Sleep Mode\*



{G2105/0}  
Disable Sleep Mode



{G2105/0}  
Disable Sleep Mode



## Set Long Press Trigger Button Shutdown time

Command Format - {G2126/Parameter}

Parameter Range - 5~60(5\*), unit is second (default setting is 5 seconds), the higher the value, the longer the pressing time.

- Command Description - This command sets the time for a long press to turn off the scanner. Select and scan the barcode below, the long-press time to shut down the scanner can be set (long-press time can be customized. As to the barcode generation method, please reference Appendix I).



{G2126/5}  
5s\*



{G2126/5}  
5s\*



{G2126/10}  
10s



{G2126/10}  
10s

---

## Set Vibration Level

Command Format - {G3008/Parameter}

Parameter Range - 0~366(183\*), the value stands for vibration intensity. The higher the value, the stronger the vibration.

- Command Description - This command is used to set vibration intensity of scanner. Select and scan the barcode below to set it (Vibration level can be customized. As to the barcode generation method, please reference Appendix I).



{G3008/0}  
Vibration Off



{G3008/0}  
Vibration Off



{G3008/122}  
Level 1



{G3008/122}  
Level 1



{G3008/150}  
Level 2



{G3008/150}  
Level 2



{G3008/183}  
Level 3\*



{G3008/183}  
Level 3\*



{G3008/244}  
Level 4



{G3008/244}  
Level 4

## Set Buzzer Volume Level

Command Format - {G3010/Parameter}

Parameter Range - 0~183(183\*), the value stands for volume, the higher the value, the louder the volume.

- Command Description - This command is used to set the scanner volume. Select and scan the barcode below, volume can be set (Scanner volume can be customized. As to the barcode generation method, please reference Appendix I).



{G3010/0}

Volume Off



{G3010/0}

Volume Off



{G3010/20}

Low



{G3010/20}

Low



{G3010/100}

Middle



{G3010/100}  
Middle



{G3010/183}  
High\*



{G3010/183}  
High\*

## Keyboard layout

Command Format - {G2108/Parameter}

Parameter Range - 0~6(0\*). The value stands for the different languages. (English is default).

- Command Description - This command is used to set keyboard layout for different countries when scanner is in Bluetooth HID mode. Select the barcode below to set the keyboard layout on the computer/mobile phone connected to the scanner. (e.g. if the computer connected to scanner uses a French keyboard, scan "French Keyboard" below to configure it).



{G2108/0}  
English Keyboard\*



{G2108/0}  
English Keyboard\*



{G2108/1}  
French Keyboard



{G2108/1}  
French Keyboard



{G2108/2}  
German Keyboard



{G2108/2}  
German Keyboard



{G2108/3}  
Spanish Keyboard



{G2108/3}  
Spanish Keyboard



{G2108/4}  
Italian Keyboard



{G2108/4}  
Italian Keyboard



{G2108/5}  
Portuguese Keyboard



{G2108/5}  
Portuguese Keyboard



{G2108/6}  
Japanese Keyboard



{G2108/6}  
Japanese Keyboard

## Auto Trig Mode

Command Format - {G3003/Parameter}

Parameter Range - 0~100(0\*), unit is millisecond, the bigger the value, the longer the interval.

● Command Description - This command is used to set the interval time of scanner auto trigger. There is no need to trigger by pressing any button after setting this. Select to scan the following barcode, set the time interval to turn off or turn on auto trigger of scanner. (Customized time interval of auto trig can be set. As to the barcode generation method, please reference Appendix I)



{G3003/0}  
Disable Autotrig\*



{G3003/0}  
Disable Autotrig\*



{G3003/10}  
1s



{G3003/10}  
1s



{G3003/20}  
2s



{G3003/20}  
2s



{G3003/50}  
5s



{G3003/50}  
5s

---

## GS1 Application Identity

Command Format - {G3013/ Parameter}

Parameter Range - 0~1(0\*), "0" stands for "disable", "1" stands for "enable".

- Command Description - This command is applied to enable/disable "GS1 Application Identity". Select the barcode below to enable/disable it (For example: GS1 barcode content is "(01)00614141999996". The output data content is "0100614141999996" when select "disable". The output data content is (01)00614141999996" when select "enable").



{G3013/0}  
Disable\*



{G3013/0}  
Disable\*



{G3013/1}  
Enable



{G3013/1}  
Enable

---

## Add prefix characters

Command Format - {G2042/Parameter1/Parameter2}

Parameter Range - Parameter1: 0~1 (0\*). "0" stands for "disable", "1" stands for "enable"

Parameter2: 0~9 character(0x00\*). The value represents the number of characters, up to a maximum of 9 additional characters.

- Command Description - This command is used to enable/disable the function of adding prefix, choose to scan the following barcode to enable/disable the adding (The prefix content can be customized. As to the barcode generation method, please reference Appendix I).



{G2042/0}  
Disable Prefix\*



{G2042/0}  
Disable Prefix\*



{G2042/1}  
Enable Prefix



{G2042/1}  
Enable Prefix

### Example:

If you want to add a prefix "Test", turn on the scanner and set the command content as {G2042/1/Test}. Then scan it as below barcode, the prefix content will be added as "Test" successfully.



{G2042/1/Test}



{G2042/1/Test}

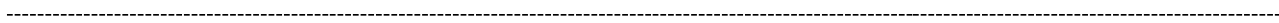
Then scan the target barcode as in below, the output data will be "Test1234".



1234



1234



## Add Suffix Characters

Command Format - {G2043/Parameter1/Parameter2}

Parameter Range - Parameter1: 0~1 (0\*). "0" stands for "disable". "1" stands for "enable"

Parameter2: 0-8 character ((0x0D) (0x0A) \*). The value represents the number of characters, up to a maximum of 8 additional characters ("ENTER" is the default).

- Command Description - This command is utilized to enable/disable the function of adding suffix. Select to scan the barcode below to set it (For special features, please select the following corresponding barcode directly. This function can be customized. As to the barcode generation method, please reference Appendix I).



{G2043/0}  
Disable Suffix



{G2043/0}  
Disable Suffix



{G2043/1/}  
Enable Suffix(CR LF\*)



{G2043/1/}  
Enable Suffix(CR LF\*)



{G2043/1/}  
Enable Suffix(CR)



{G2043/1/}  
Enable Suffix(CR)



{G2043/1/}  
Enable Suffix(LF)



{G2043/1/}  
Enable Suffix(LF)



{G2043/1/ }  
Enable Suffix(TAB)



{G2043/1/ }  
Enable Suffix(TAB)



{G2043/1/ }  
Enable Suffix(SPACE)



{G2043/1/ }  
Enable Suffix(SPACE)

**Example:**

If you want to add a suffix "Test", turn on scanner and set the command content as {G2042/1/Test}. Then scan it as the barcode below, the suffix content will be added as "Test" successfully.



{G2043/1/Test}



{G2043/1/Test}

Then scan the target barcode, the output data will be "1234Test".



1234



1234

**Insert characters**

Command Format - {G2044/Parameter1/Parameter2/Parameter3}

Parameter Range - Parameter1: 0~1 (0\*). "0" stands for "disable". "1" stands for "enable".

Parameter2: 0-barcode length-1 (0\*). The value stands for the position where the character should be inserted. The character cannot be inserted at the last (For example, the barcode content is "123456", we want to insert a character after the third number, then the value of Parameter2 should be "3").

Parameter3: 0-barcode length-2 characters (0\*). The value here stands for the number of characters inserted. The maximum insertion amount is 2 less than the character length (For example, the barcode content is "123456", the insertion amount at Parameter3 is among 0-4, like a, aa, aaa, aaaa, aaaaa cannot inserted).

- Command Description - This command is used to inserting character for the target barcode. Select and scan the barcode below to enable/disable insertion (This function can be customized. As to the barcode generation method, please reference Appendix I).





{G2044/0}

Disable Insert Characters\*



{G2044/0}

Disable Insert Characters\*



{G2044/1}

Enable Insert Characters



{G2044/1}

Enable Insert Characters

**Example:**

If you want to insert the character "Te" after the second character in barcode content "1234", please type-in the barcode content as {G2044/1/2/Te}, then scan the barcode below. The character "Te" inserted after the second character successfully.



{G2044/1/2/Te}



{G2044/1/2/Te}

Then scan the barcode below, the output data should be "12Te34".



1234



1234

**Delete the character before the barcode**

Command Format - {G3000/Parameter}

Parameter Range - Parameter: 0~less than barcode length (0\*). The value stands for the number of characters in the barcode, counting from the beginning.

- Command Description - This command is employed to enable/disable the function of deleting characters in the barcode, counting from the beginning. Select to scan the barcode below to disable the delete function (This function can be customized. As to the barcode generation method, please reference Appendix I).



{G3000/0}

Disable\*



{G3000/0}

Disable\*

**Example:**

If you want to delete the first three characters in code "1234", please set the command content to be {G3000/3}, and then scan it below to enable this setting.



{G3000/3}



{G3000/3}

Then scan the barcode below. "4" will be outputted after scanning.



1234



1234

**Delete the character after the barcode**

Command format - {G3001/ Parameter}

Parameter Range - Parameter: 0~less than barcode length (0\*). The value stands for the number of characters need to be deleted in the barcode, counting from the end.

- Command Description - This command is used to enable/disable the function of deleting the specified number of characters in the barcode, counting from the end, scanning the following barcode to disable the function (customize the number of characters to be deleted from the barcode information, you can refer to Appendix I for the barcode generation).



{G3001/0}  
Disable\*



{G3001/0}  
Disable\*

**Example:**

If you want to delete the last three number of the barcode "1234", please set the command content as {G3001/3}. Then scan the barcode below to enable it.



{G3001/3}



{G3001/3}

And then scan the barcode "1234" again, "1" will be outputted.



1234



1234

# Barcode Characters Replacement

Command Format - {G3012/Parameter1/Parameter2/Parameter3}

Parameter Range - Parameter1: 0~1(0\*)"0" stands for "disable", "1" stands for "enable"

Parameter2: 0-1 character(0x00\*) stands for the character before exchanged, and maximum one character.

Parameter3: 0-1 character(0x00\*) stands for the character after exchanged, and maximum one character.

- Command Description - This command is used to enable/disable the function of exchanging character on scanner. Select to scan the barcode below to enable or disable the function.



{G3012/0}

Disable\*



{G3012/0}

Disable\*



{G3012/1}

Enable



{G3012/1}

Enable

## Example:

If you want to change the character "3" in barcode "1234" to "A", please set the command content as {G3012/1/3/A}, then scan the barcode below to enable it.



{G3012/1/3/A}



{G3012/1/3/A}

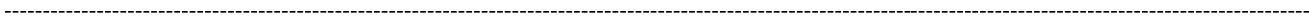
Then scan the barcode below, the outputted data will be "12A4".



1234



1234



## Bluetooth HID Mode

Command Format - STX00000007ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used for scanner to enter into Bluetooth HID mode. Scan the barcode below to enter into Bluetooth HID mode. The light indicator is blue light fast blink.



STX 00000007 ETX

Bluetooth HID Mode



STX 00000007 ETX

Bluetooth HID Mode

---

## Bluetooth SPP Mode

Command Format - STX00000008ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used for scanner to enter into Bluetooth SPP mode. Scan the barcode below to enter into Bluetooth SPP mode. The light indicator is blue light slow blink.



STX 00000008 ETX

Bluetooth SPP Mode



STX 00000008 ETX

Bluetooth SPP Mode

---

## Bluetooth BLE Mode

Command Format - STX00000028ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used for scanner to enter into Bluetooth BLE mode. Scan the barcode below to enter into Bluetooth BLE mode. The light indicator is two fast one slow blue light blinking alternately.



STX 00000028 ETX  
Bluetooth BLE Mode



STX 00000028 ETX  
Bluetooth BLE Mode

## Bluetooth SPP Master Mode

Command Format - STX00000058ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used for scanner to enter into Bluetooth SPP master mode. Scan the barcode below to enter into Bluetooth SPP master mode. The indicator light is blue light four fast one slow blinking alternately.



STX 00000058 ETX  
Bluetooth SPP Master Mode



STX 00000058 ETX  
Bluetooth SPP Master Mode

## Change Bluetooth name

Command Format - {G1070/Parameter}

Parameter Range - Parameter: 0-25 characters (GS-BarcodeScanner BT40\*) parameter stands for characters, 25 characters at most.

- Command Description - This command is used to set Bluetooth name of scanner. For customizing Bluetooth name, please reference Appendix I to generate the command.

### Example:

If you want to change the Bluetooth name from "GS-BarcodeScanner BT40" into "GS Sample01", please set the command content as {G1070/ GS Sample01}.



{G1070/GS Sample01}



{G1070/GS Sample01}

Please scan the barcode above to change the Bluetooth name successfully.

## Read Bluetooth Address

Command Format - {G1076}

- Command Description - This command is used for scanner to read the Bluetooth address. After the scanner connected successfully with terminal, open a notebook, then scan the barcode below, the Bluetooth address will be outputted.



{G1076}  
Bluetooth Address



{G1076}  
Bluetooth Address

---

## Clear Paired Information List

Command Format - {G1079}

- Command Description - This command is used to disconnect the scanner from computer or mobile phone. Scanner the barcode below to disconnect the scanner, and restore the scanner to a searchable state.



{G1079}  
Clear Pair List



{G1079}  
Clear Pair List

---

## IOS Eject Soft Keyboard

Command Format - {G1080}

- Command Description - This command is used for iOS device to pop up soft keyboard when it is connected to iOS device in Bluetooth HID mode. Scan the barcode below, the iOS system device will pop up the soft keyboard.



{G1080}  
IOS Eject Soft Keyboard



{G1080}  
IOS Eject Soft Keyboard

---

## Change Pair Pin Code

Command Format - {G1085/Parameter}

Parameter Range - Parameter:0-4 Numbers (1234\*) The number stands for pairing password, 4 characters at most.

- Command Description - This command is used for setting the inputting passcode when scanner pairing with computer or mobile phone in Bluetooth SPP mode. Please reference Appendix I to customize password.

**Example:**

If you want to change Pair pin from "1234" to "4321", please set the command content as "{G1085/4321}".



{G1085/4321}



{G1085/4321}

Scan the barcode above, when the scanner connects again in Bluetooth SPP mode, Pair pin needs to enter "4321" before the connection can be established.

## Modify Bluetooth HID Output Speed

Command Format - {G1082/Parameter1/Parameter2/Parameter3/Parameter4}

Parameter Range - Parameter1: 0 stands for a fixed value

Parameter2: 0 stands for a fixed value

Parameter3: 15-200(15\*) stands for speed level, the bigger the value, the slower the speed.

Parameter4: 0 stands for a fixed value

- Command Description - This command is used to set the Bluetooth HID Speed of scanner in Bluetooth HID mode. This function is applicable for scanners of GS R1120, GS R352X and GS R552X series. The Bluetooth HID Speed can be set by scanning directly the barcode below. (For customized speed setting, please reference Appendix I)



{G1082/0/0/15/0}

High Speed



{G1082/0/0/15/0}

High Speed



{G1082/0/0/50/0}

Middle Speed



{G1082/0/0/50/0}

Middle Speed



{G1082/0/0/80/0}  
Low Speed



{G1082/0/0/80/0}  
Low Speed



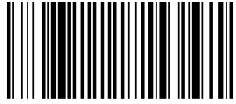


## USB HID Mode

Command Format - STX00000005ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used for scanner to enter into USB HID mode. Scan the following barcode, the scanner enters into USB HID mode, the light indicator goes off.



STX 00000005 ETX  
USB HID Mode



STX 00000005 ETX  
USB HID Mode

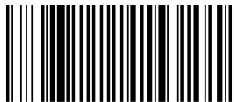
---

## USB VCP Mode

Command Format - STX00000015ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description: This command is used for scanner to enter into USB VCP mode. Scan the barcode below, the scanner enters into USB VCP mode, the light indicator goes off.



STX 00000015 ETX  
USB VCP Mode



STX 00000015 ETX  
USB VCP Mode

---

## Output Firmware Version

Command Format - {G1064}

- Command Description - This command is used for getting the firmware version of scanner. After the scanner connected with computer, opening a notebook, then scan the barcode below, the firmware version will be outputted.



{G1064}

Firmware Version



{G1064}

Firmware Version

---

## Output Device ID

Command Format - {G1065}

- Command Description - This command is used for getting the device ID. After the scanner connected with computer or mobile phone, opening a notebook, then scan the following barcode, the device ID will be outputted.



{G1065}

Device ID



{G1065}

Device ID

---

## Output Battery Level

Command Format - {G1066}

- Command Description - This command is used to reading the battery level of scanner. After the scanner connected with computer or mobile phone, opening a notebook, then scan the barcode below, the battery level of scanner will be outputted.



{G1066}

Battery Level



{G1066}

Battery Level

---

## Output Serial Number

Command Format - {G2116}

- Command Description - This command is used for getting the serial number of scanners. After the scanner connected with computer or mobile phone, open a notebook, then scan the following barcode, the serial number of scanners will be outputted.



{G2116}  
Serial Number



{G2116}  
Serial Number

---

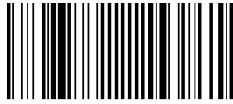
## Offline Storage Mode

Command Format - STX1067010ParameterETX

Parameter Range - Parameter: 0-1(0\*). "0" stands for "disable", "1" stands for "enable"

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used for scanner to enable/disable offline storage mode. Enable this function, the scanning data will be saved to storage, but transferred to computer/mobile phone immediately. Scan the following barcode to enable or disable this function.



STX 10670101 ETX  
Enable Offline Storage Mode



STX 10670101 ETX  
Enable Offline Storage Mode



STX 10670100 ETX  
Disable Offline Storage Mode\*



STX 10670100 ETX  
Disable Offline Storage Mode\*

---

## Amount of Offline Data

Command Format - STX10670102ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description: This command is used to get the number of times the scanner has successfully decode the barcode in "offline Storage Mode".



STX 10670102 ETX  
Amount of Offline Data



STX 10670102 ETX  
Amount of Offline Data

---

## Fast Speed Upload

Command Format - STX10670103ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used to fast get the output data that successfully decode by the scanner in "Offline Storage Mode". Scan the following barcode, the output data that successfully decoded by the scanner in "Offline Storage Mode" will be fast uploaded. (the upload speed is about 3.5 pieces per second).



STX 10670103 ETX  
Fast Speed Upload



STX 10670103 ETX  
Fast Speed Upload

---

## Medium Speed Upload

Command Format - STX10670105ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used to get, in medium speed, the output data that successfully decode by the scanner in "Offline Storage Mode". Scan the barcode below, the output data that successfully decoded by the scanner in "Offline Storage Mode" will be uploaded in medium speed (the upload speed is about one piece per second).



STX 10670105 ETX  
Medium Speed Upload



STX 10670105 ETX  
Medium Speed Upload

---

## Slow Speed Upload

Command Format - STX10670106ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used to get the output data in low speed that successfully decode by the scanner in "Offline Storage Mode". Scan the barcode below, the output data that successfully decoded by the scanner in "Offline Storage Mode" will be uploaded in low speed (the upload speed is about 0.5 piece per second).



STX 10670106 ETX  
Slow Speed Upload



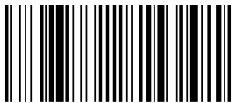
STX 10670106 ETX  
Slow Speed Upload

## Clear Offline Data

Command Format - STX10670104ETX

Note: STX and ETX is special character. Please refer to the barcode generation guide in Appendix I when making barcode in this format.

- Command Description - This command is used to clear the data that scanner saved in "Offline Storage Mode". Scan the following barcode, all the data saved in "Offline Storage Mode" will be cleared.



STX 10670104 ETX  
Clear Offline Data

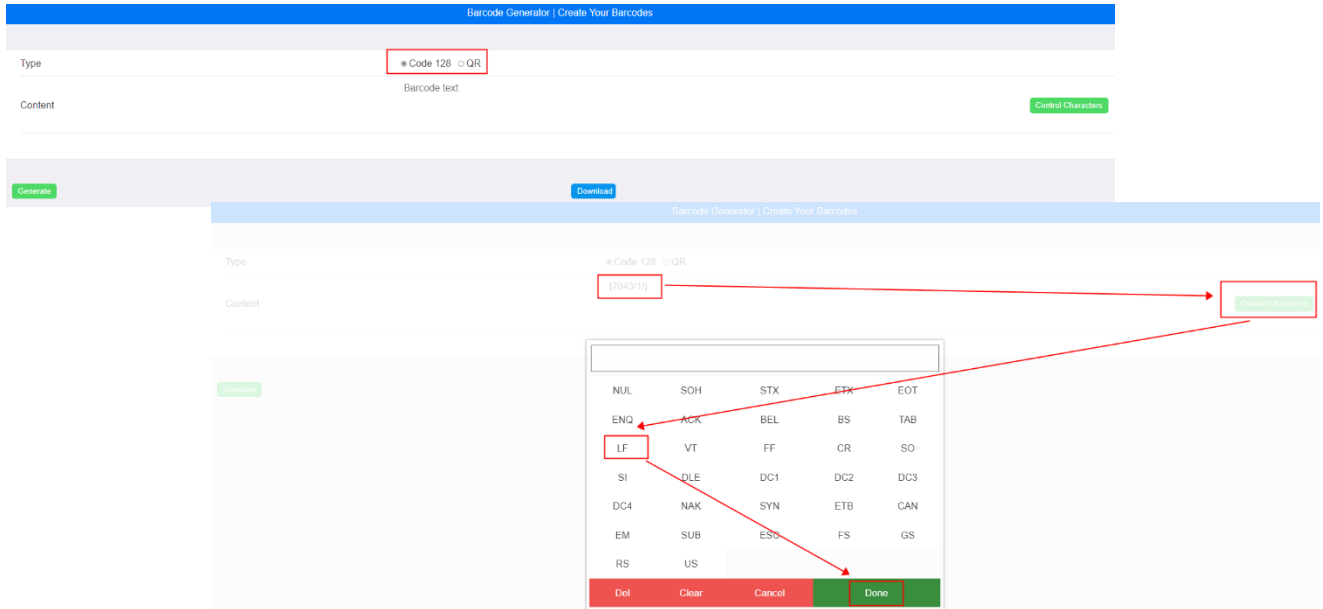


STX 10670104 ETX  
Clear Offline Data

# Appendix I Steps of generating barcode

Step 1. Open the website: <https://www.generalscan.net:8443/H5/CustomBarcode/>

Step 2. Select "Code128" to make a 1D barcode, and select "QR" to make a 2D code. The screenshot below is for reference.

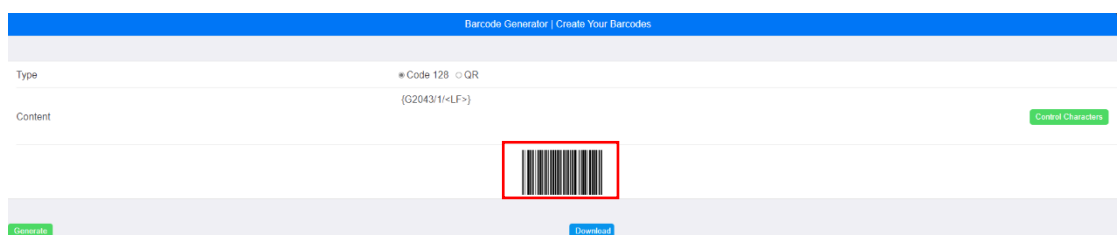


Step 3. Input the command {G2043/1/<LF>} in the red column below. (<LF> stands for Control Characters, and can be get by selecting "LF" after clicking "control characters").

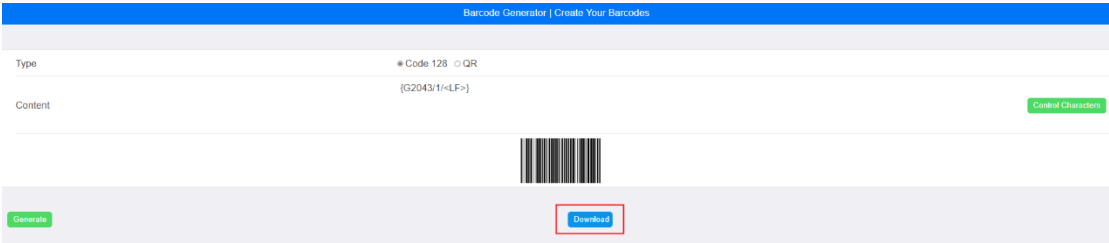
Step 4. After typing in automatically <LF>, click "Generate" to get the barcode.



Step 5. Now we get a barcode as the image below.



Step 6. You can save the barcode by clicking the "Download" button.





## Appendix II Explanation of Special Character

### Special Character Explanation

NUL → Null	VT → Vertical Tab	SYN → synchronization Idle
STX → Start of text	CR → Carriage Return	CAN → Cancel
ETX → End of text	SO → Shift Out	EM → End of Medium
EOT → End of transmission	SI → Shift In	SUB → Substitute
ENQ → Enquiry	DLE → Data Link Escape	ESC → Escape
ACK → Acknowledge	DC1 → Device Control 1	FS → File Separator
BEL → Bell	DC2 → Device Control 2	GS → Group Separator
BS → Backspace	DC3 → Device Control 3	RS → Record Separator
HT → Horizontal Tab	DC4 → Device Control 4	US → Unit Separator
LF/NL → Line Feed/New Line	NAK → disconfirm	DEL → Delete