

Setting Guide

Version 1.3

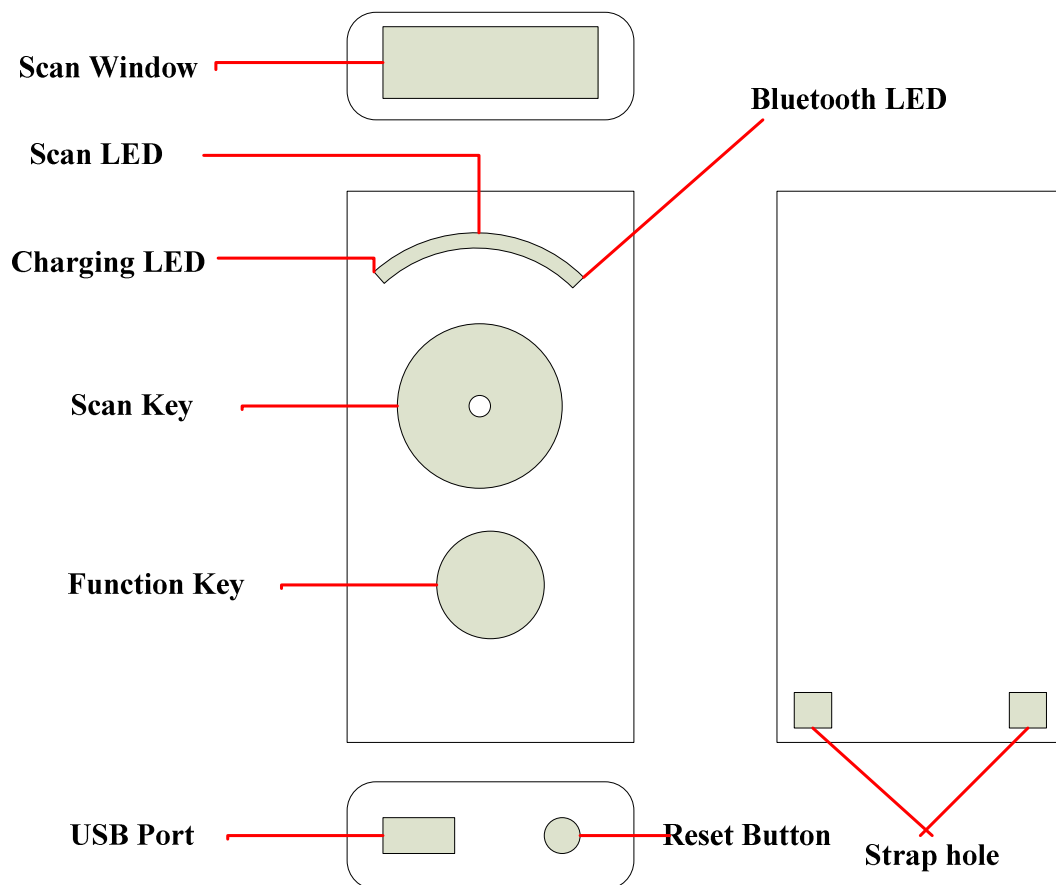
Oct / 15/ 2015

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1. Layout Descript



| Item | Description |
|-----------------------------|--|
| Scan Window | The widows of Scanner for read. |
| Battery / Charging LED | Battery Status Green On : Charging Finish Green Off : Battery Low Red On : Charging Red Off : Battery fail |
| Scan LED | Barcode Read status Green : Barcode be decoded Ok Red : Barcode be decoded fail (time out) |
| Bluetooth Communication LED | Bluetooth Communication Status Green quick flash : Bluetooth is not connected |

| | |
|--------------|---|
| | <p>Green slow flash : Bluetooth is Connected ok</p> <p>USB Connect Status</p> <p>Green On : USB connected</p> <p>Green slow flash : Data is transferring</p> |
| Scan Key | <p>Press and hold more then 3 seconds : Power On</p> <p>Press : Barcode Scan</p> |
| Function Key | <p>According difference mode it will have difference function</p> <p>Please reference 【3. Key Function Description】。</p> |
| USB Port | <p>Use AC Adapter for charging or use USB cable for data transfer.</p> |
| Reset Button | <p>Press the button, The system will be power off</p> |
| Strap Hole | <p>Hand strap use</p> |

2.Action Mode

This device have three action mode for Bluetooth SPP communication, the default action mode is real mode.

The mode can be changed by scan setting barcode. But, the customer can not change the mode If the data file (data.txt) have some records not be send out .

The description of mode, please see the follow table.

| Action Mode | Description |
|---------------------------|---|
| <i>Real Mode</i> | The scan data will be transferred via Bluetooth connect, and the scan data will not be transferred and not be saved to data file when the Bluetooth is disconnect. HID communication support. This mode support connection error handshake. It need an application to handle the communication handshake and data receive / send on SPP communication |
| <i>Batch Mode</i> | The scan data will be saved to this device. You have two methods to get the scan data ✧ Bluetooth data transfer : You can send the data via Bluetooth SPP connection. ✧ USB transfer : You can transfer the data file via USB cable connect. You have two methods to delete the data. ✧ Scan a factory default of setting barcode ✧ Delete the data after USB connect |
| <i>Hybrid Mode</i> | The scan data will be transferred via Bluetooth connect, and if Bluetooth disconnect, the scan data will be saved to the data file, after Bluetooth reconnect, the records of data file will be transfer to host device via SPP mode. After transfer complete the records on the data file will be deleted. You need an application to handle the handshake under SPP communication. |

The customer can make a decision, according the customer environment to choice the best mode.

3. Key Function Description

The follow table descript the motion of the status and key function.

| | Motion status | | | | | | |
|--------------------------------------|-----------------------|--|----------------------------|----------------------------|------------|---------------|------------|
| | Power Off | Bath mode | Real mode | | | Hybrid mode | |
| | | | HID | SPP | Disconnect | SPP | Disconnect |
| Scan Key(press more then 3 seconds) | Power On ¹ | — | — | | | — | |
| Scan Key + Function Key | — | Bluetooth data transfer and wait state mode ² | — | | | — | |
| Scan Key | — | Scan | | | | | |
| Function Key | — | Delete one recode of data file ³ | Send key code ⁴ | Send key code ⁵ | Reconnect | Send Key code | Reconnect |
| Reset Button | — | Reset ⁶ | | | | | |

¹ This BTS600 will auto Power off ◦

Press Scan key and hold more then 3 seconds on the BTS600, it will start on and load the system configure.

² When you change it to Bluetooth data transfer mode, BTS600 will wait the host command from terminal host device include smart phone or tablet device or PC .

³ The scan data will be saved to the file of memory. You can delete the same record on the data file of memory ◦ The last record will be deleted first, even you scan the same data on the different time. It can not delete multi records on the same time.
It can be set enable or disable according you setting.

⁴ The software keyboard of iPhone, iPad can be call by press Fn key of BTS600 Via Bluetooth communication, It can be setting enable/disable different Key code to data transmit..

⁵ It can be setting enable/disable different Key code to data transmit

⁶ The power is off after reset

4.LED Display and Buzzer

The following table is description of the LED display and sound on the different issue.

| Data collect status | Scan LED | Battery LED | Bluetooth LED | Sound |
|---|--|-------------|---------------|-------------|
| User good scan | Green (50ms) | | | Bi |
| User bad Scan (5 second time out) | Red(300ms) | | | Bi, Bi, Bi |
| Configuration good scan | Green (100ms) | | | Bi~, Bi |
| Configuration bad scan (5 second time out) | Red(300ms) | | | Bu, Bu, Bu |
| SPP Slave mode setting | | | | Bu, Bu |
| SPP Master mode setting | | | | Bi, Bi |
| HID mode setting | | | | Bu, Bi |
| Real mode Power Up | Green | | | |
| Batch mode Power Up | Red | | | |
| Never reset Date and Time when Power Up (Only Batch mode) | Orange Flash On : 300 ms Off : 500 ms 3 Times | | | Bu~,Bu~,Bu~ |
| The data file of memory have data record When Power Up | Green Flash On : 300 ms Off : 500ms 3 Times | | | |
| Memory Full | Red Flash On : 300 ms Off : 500ms 3 Times | | | Bu~, Bu~ |
| Delete one record of data file on the memory success | Orange | | | Bi, Bi, |

| | | | | |
|--|--------------------|---|-----------------------|--------------------------------------|
| It is not found that press Fn key to delete one record Under Batch mode. | | | | Bu, Bu, Bu |
| The record format of data file on memory be changed | Red(300ms) | | | Bu, Bu, Bu |
| Battery Charging | | Red | | |
| Battery Charging fail | | Red Flash On : 100 ms Off : 100ms | | |
| Battery Charging finish | | Green | | |
| Batter low | | Red Flash On : 200 ms Off : 800ms | | |
| Bluetooth Paring | | | Quickly Blue Flash | |
| wait enter the PIN code when Bluetooth paring (60 second time out) | | | Quickly Blue Flash | Bi~, Bi~ until paring ok or Time out |
| Bluetooth Paring fail | | | Quickly Blue Flash | Bu~,Bu~,Bu~ |
| No Bluetooth connect | | | Quickly Blue Flash | |
| Bluetooth connect success | | | Slow Blue Flash | Bi, Bi |
| Bluetooth connected | | | Slow Blue Flash | |
| Bluetooth disconnect or connect fail | | | Quickly Blue Flash | Bu, Bu |
| Bluetooth reconnected and data transmit under batch mode | Red | | Slow Blue Flash | |
| Bluetooth reconnected and data | Red(when the data | | | |

| | | | | |
|---|----------------|--|------------------|--|
| transmit under Hybrid mode | transmitting) | | | |
| USB connected | | | Blue On | |
| USB data transmit | | | Quick Blue Flash | |
| Press Fn Key to wait 6 seconds while Bluetooth reconnect. | | | Blue On | |
| Firmware Updating | Orange Flash | | | |
| Firmware Update finish | Orange | | | |

◆ Tone

Bi : short 、 High tone

Bu : short 、 Low tone

Bi~ : Long 、 High tone

Bu~ : Long 、 Low tone

5. Bluetooth Connect Description

5.1. Specification

This BT600 is a wireless interface device , it is follow Bluetooth ver2.1+EDI Class II specification, include the SPP(Serial Port Profile) and HID(Human Interface Device Profile) on this device, It must install the same profile on the paring device (ex. iPhone, iPad or PC) too for Bluetooth communication.

| Specification | Description |
|--------------------------------|--|
| Intensity of the electric wave | Class II The max distance is 10 M for Bluetooth communication, The max distance will different according user environment. |
| Paring | One BTS600 paring with one host device, it can not paring with more then one host device in the same time. |
| Communication | SPP : It is a serial port communication for SPP slave mode or SPP master mode. |
| | HID : It is Human interface communication. |
| Authentication & Encryption | Authentication : Default PIN Code is “0000”, it can be changed by configure barcode. Encryption : The data can be encrypted by Bluetooth communication, Default is no encryption. It can be enabled / disable by configure barcode. |

- ※ If BTS600 want connect with the iPhone 、 iPad of Apple product , the iOS of iPhone 、 iPad must lately of version 5.0.
- ※ If BTS600 want connect with the product of Android smart phone, the OS of Android must lately of version 4.0.
- ※ If BTS600 want connect with the BT dongle of PC or NB, the dongle must lately of BT version 2.0.

5.2.Data transfer via Bluetooth Under Batch mode

The customer can get the data that be saved under Batch mode by Bluetooth . The BTS600 must change to Bluetooth data transfer mode, you can reference the 「 **5.3 SPP communication** 」

| Item | Description |
|--------------------------|--|
| How to transfer the data | Two method of transfer ✧ Press Key (Scan Key + Fn Key) ✧ Scan the “ BT data transmission mode change ” configuration barcode (A033) |

5.3.SPP Communication

This section is about the SPP communication

The BTS600 will execute the handshake with host device (ex. PC, iPhone, iPad or Android smart phone) according the setting of BTS600 configuration under SPP communication. So the customer must install an application on the host device to handle the communication handshake with BTS600.

The follow table is for customer application reference.

| | |
|-------------|---|
| Master mode | BTS600(This Device) send out the paring request to host device. Please reference “ The setting barcode about physical address of Bluetooth module ” The Bluetooth physical address of Host device only 12 digital. |
| Slave mode | The host device sent out the paring request to BTS600. Please reference “ The Setting barcode about Device Name of BTS600 ” The BT manger application of host device select the BTS600 device name |

※ If BTS600 want connect with the BT dongle of PC or NB, the dongle must lately of BT version 2.0.

5.3.1. SPP Transfer Data format

The Bluetooth communication of SPP mode is simulate the communication of virtual serial

Port, So the host device must install and execute an application to handle the handshake with BTS600.

The data format of SPP transfer of BTS600 as follow :

[Prefix][Digit][Data][Checksum][Suffix]

| Item | Byte Number | Value | Description |
|-----------|-------------|-----------|-------------------------------------|
| Prefix | 1 | STX(0x02) | The start bit of SPP communication. |
| Digit | 1 | | The size of Data |
| Data | | | The scan data |
| Check Sum | 2 | | The check sum of Data |
| Suffix | 1 | ETX(0x03) | The Stop bit of SPP communication. |

5.3.2. Host command

Under SPP communication mode, the host device (include Android smart phone, PC) can send Host Command to BTS600 to control BTS600, and BTS600 will return the result to host device after execute the host command.

The data format of Host command as follow :

[Start][Command][Option][End]

| Field | Format | Description |
|---------|--------------|---|
| Start | ! | Host command start character. |
| Command | 1 ~ 8 | Command number, that have 1 to 8 , you can reference「 Host Command function list table 」 |
| Option | YYMMDDHHMM | For date and time setting |
| End | CRLF(0x0D0A) | Host command stop character. |

The data format of result that BTS600 execute the host command, the data will be return to the host device as follow :

[Start][Command][,][Response][End]

| Field | Format | Description |
|-------|--------|-------------|
|-------|--------|-------------|

| | | |
|----------|--------------|--|
| Start | RE | The start character of response after executed host command. |
| Command | 1 ~ 8 | The response after execute host command number. |
| , | | Separation |
| Response | OK NG | The result after execute host command |
| | YYMMDDHHMM | The date & time of BTS600 for host command 3 |
| | F M L | The battery status of BTS600 for host command 4 |
| | ***** | The record count of data file for host command 8 |
| End | CRLF(0x0D0A) | The stop character of response after executed host command. |

The detail of host command and return value, please reference “**Host command function list**” table as follow.

The number 5 ~ 8 is used while BTS600 waiting state of “**Bluetooth data transmit mode**”.

Host Command function list table

| No | Function | Host sand | Host Receive | Notes |
|----|-----------------------------|----------------------|--|---|
| 1 | Scan | !1<CRLF> | RE1,OK<CRLF> and <data> RE1,NG<CRLF> | The BTS600 will auto scan when the host command be executed, BTS600 will return scan ok or not and scan data according SPP transfer format. |
| 2 | Set data and Time to BTS600 | !2YYYYMMDDHHMM<CRLF> | RE2,OK<CRLF> RE2,NG<CRLF> | BTS600 will set date & time according this host command. |
| 3 | Read Date of BTS600 | !3<CRLF> | RE3, YYYYMMDDHHMM<CRLF> | BTS600 will return date & time according to host device. |
| 4 | Power status | !4<CRLF> | RE4,F<CRLF> RE4,M<CRLF> | BTS600 will return battery status to host |

| | | | | |
|---|-------------------------------------|----------|------------------------------|--|
| | | | RE4,L<CRLF> | device. F is Full power M is Middle power L is Low power. |
| 5 | Send the scan data file of BTS600 | !5<CRLF> | None | BTS600 will send all records of the data.txt on Memory to host device. |
| 6 | Delete the scan data file of BTS600 | !6<CRLF> | RE6,OK<CRLF> RE6,NG<CRLF> | BTS600 will delete the data.txt file on memory |
| 7 | Communication Wait status | !7<CRLF> | RE7,OK<CRLF> RE7,NG<CRLF> | BTS600 will change to waiting next host command status, in this time BTS600 scan function will not work. |
| 8 | recode count of data file | !8<CRLF> | RE8, XXXX<CRLF> | BTS600 will return the record count of data.txt on memory. |

5.4. HID Communication

BTS600 pairing with iPhone, iPad of Apple product or pairing with Android, PC by HID communication, the BTS600 will be keyboard interface of those terminal host device. The HID mode is default factory mode of BTS600, so the product of Apple can quickly connect with BTS600 and ease use.

About connect method, please reference the Bluetooth menu of those terminal host device. The customer can press Fn key to call the software keyboard of iPhone, iPad to show or hide After BTS600 connect with iPhone, iPad complete.

- ※ If BTS600 want connect with the iPhone, iPad of Apple product, the iOS of iPhone, iPad must lately of version 5.0.
- ※ If BTS600 want connect with the product of Android smart phone, the OS of Android must lately of version 4.0.
- ※ If BTS600 want connect with the BT dongle of PC or NB, the dongle must lately of BT version 2.0.

Nots :

If you want the BTS600 be the key board interface of iPhone, iPad, Please set to **“English”** mode on the keyboard setting of iPad, iPhone first. If you does not set to **“English”** mode, it will display other character on iPhone, iPad after you use BTS600 scan a barcode data.

6.USB connect

6.1. Specification

This device (BTS600) have a USB port , it will support charge when you use USB cable to connect with BTS600 and PC host.

| Specification | description |
|--------------------|--|
| Communication Spec | USB 2.0 Full speed USB Mass Storage support |
| Cable | Micro USB type B |
| Charging | DC5V Use an AC adapter for charge, Please use this machine subsidiary AC adapter to charge, or you can use USB cable (Option) for charge too. If you use not this machine subsidiary AC adapter to charge, the charge function maybe can not work. Notes : <ul style="list-style-type: none">✧ USB cable, please use USB cable that our company offer. The commercial USB cable is probably unable to be used for charging.✧ While using USB cable to join USB HUB, it maybe unable to charge.✧ Use AC charge plug or use USB cable connect with PC to charge BTS600, please pay attention to the charge time unusual.✧ Use AC charge plug to charge this device , the Bluetooth communication and scan function are normal on this machine , use USB cable connect with PC for charge, Bluetooth communication and scan function will be restrain to use. |

6.2. USB data transfer mode

Under Batch mode, the scan data will be saved into the data.txt file of BTS600 memory. User can obtain data.txt file that stored in memory of BTS600 with USB thread.

| Specification | Description |
|---------------------|--|
| Transfer | Connect with PC : When the BTS600 connect with PC via USB cable, the USB memory of BTS600 will be a disk of PC. ※Please use the USB cable we offer , or buy to us. |
| USB Memory Function | Under Batch mode. The maximum records of data.txt are 8000 records. It will include two files on the memory of BTS600. Data.txt : Under batch mode, the scan data will be saved to this file, if user use USB cable to connect between PC and BTS600, the user can read this file or delete this file. System.cfg : This is a setting file of BTS600. When this file be updated, and repower on this device, the system will be start up and be set according this file. |
| Notes | Under USB data transfer mode. The follow function will be limited. <ul style="list-style-type: none"> ➤ Bluetooth will be disable (it will be disconnect). ➤ Scan function or other operate will be disable. |

6.3. The Data format of data file

The recode size is 128 Bytes on data.txt, the scan data will be saved into this data file. Please reference the 『9.2.4 Batch mode setting』

Data format descript as follow

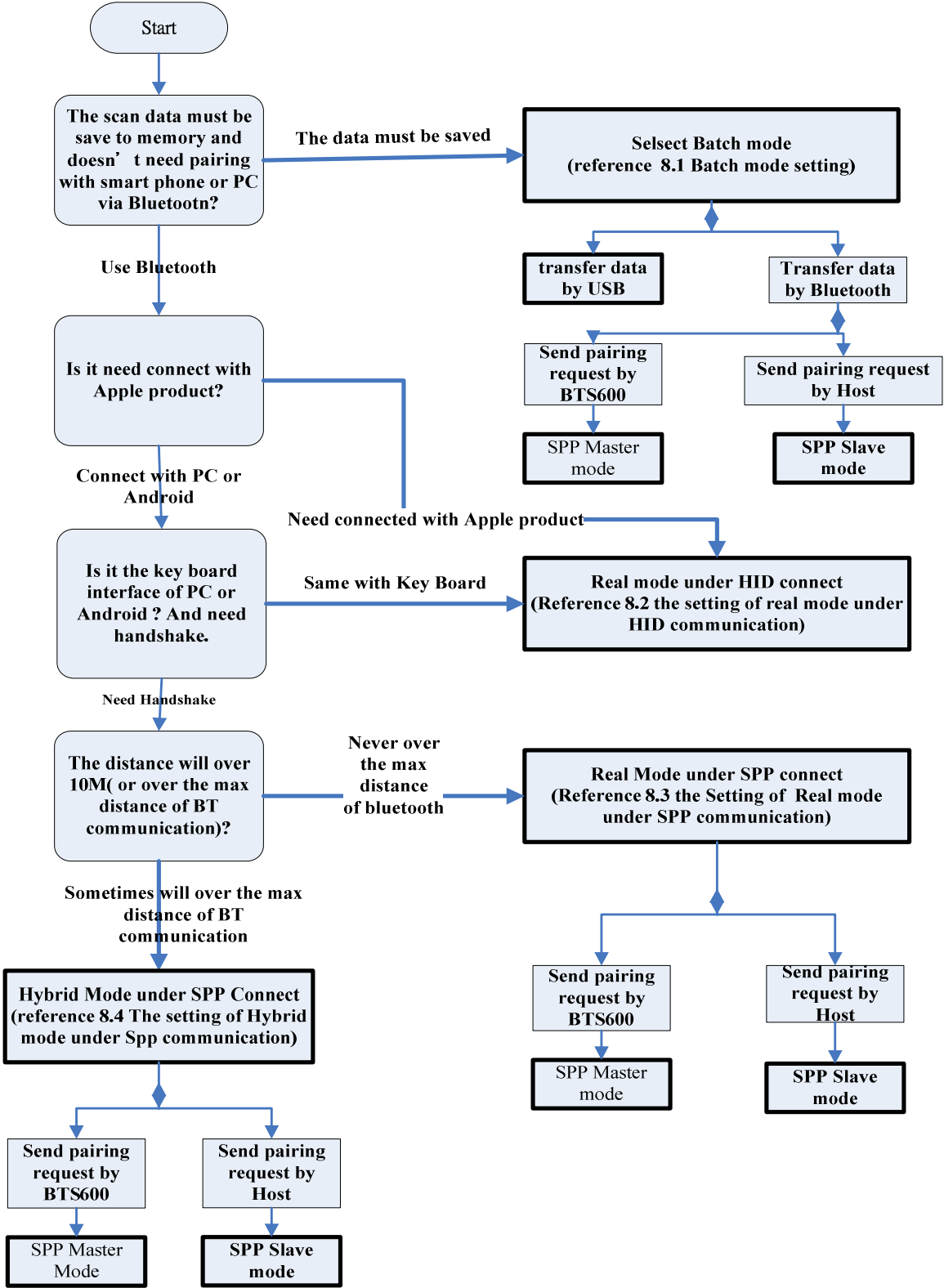
[Mark][Checksum][Delimiter][Timestamp][Delimiter][Data][Termination]

| Item | bytes | Default value | description |
|-----------|-------|---------------|---|
| Mark | 1 | | Special Mark + : Added — : deleted # : Send out ok |
| Check sum | 4 | | Check sum |

| | | | |
|-----------------------|-----|---------------------|---|
| | | | Use 2 digital of ASCII code |
| Delimiter | 1 | | Separate mark |
| Time stamp | 19 | YYYY/MM/DD,hh:mm:ss | Date & time The separate of data & time, It is same with Delimiter field. |
| Delimiter | 1 | | Separate mark |
| Data | 100 | | Scan data, If data length at the full 100 Bytes, will fill blank in order to mend all over 100bytes behind data |
| Record Termination | 2 | CRLF(0x0D0A) | The termination of every record. |

7. The Suitable use method

The user can follow the follow chart to select the best mode for use.



8. Simple Setting

The use choice the best mode according **【7. The Suitable use method】**

8.1. Batch Mode setting


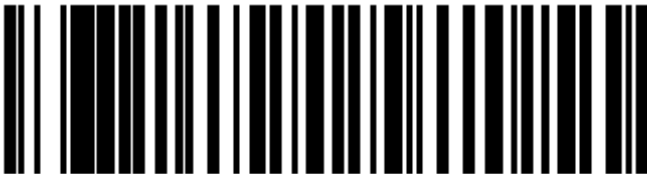
If the user want scan the barcode data and be saved into the memory of BTS600, please use Batch Action mode.

The user can get the record of memory on the BTS600 by different method, according User setting.

Use USB : If user choice the data transfer mode by USB, please reference **【6. USB Connect】**

Use Bluetooth : If user choice the data transfer mode by Bluetooth, it will need an application be install and running on the terminal host like Android smart phone · PC. please reference **【5. Bluetooth Connect Description】**





8.1.1. Data transfer by USB situation

| Description | Setting | Setting Barcode | Cord ID |
|-----------------------|----------------|--|---------|
| Communication setting | SPP Slave mode |  | A002A |
| Action mode setting | Batch mode |  | A014A2 |

※ It must setting SPP Slaver mode even the user use USB cable for data transfer.



8.1.2. Data transfer by SPP Master mode situation


| Description | Setting | Setting Barcode | Cord ID |
|-------------|---------|-----------------|---------|
|-------------|---------|-----------------|---------|

| | | | |
|---|--|--|--------|
| Enter the physical address of BT module | Input |  | B001A |
| Communication start | Enter SPP Master mode |  | A001B |
| Action mode setting | Batch mode |  | A014A2 |
| Wait host command under Bluetooth communication | Start data transfer by Bluetooth communication |  | A033A |

※please reference **【The Setting barcode about Bluetooth Device name of BTS600】** of **【9.2.1 System mode Setting】**

8.1.3. Data transfer by SPP Slave mode situation

| Description | Setting | Setting Barcode | Cord ID |
|-----------------------|----------------|--|---------|
| Communication Setting | SPP Slave mode |  | A002A |
| Action mode setting | Batch mode |  | A014A2 |



| | | | |
|---|--|--|-------|
| Wait host command under Bluetooth communication | Start data transfer by Bluetooth communication |  | A033A |
|---|--|--|-------|

8.2. Real mode setting under HID communication

The BTS600 pairing with iPhone, iPad of Apple product or pairing with terminal host like Android smart phone、tablet、PC、and the BTS600 is a keyboard interface of those terminal host, Please use Real mode under HID communication.

The real mode and HID mode are factory default mode of BTS600, so those host can quickly pairing with the BTS600.

- ※ If BTS600 want connect with the iPhone, iPad of Apple product, the iOS of iPhone, iPad must lately of version 5.0.
- ※ If BTS600 want connect with the smart phone of Android product, the OS of Android must lately of version 4.0.
- ※ If BTS600 want connect with the BT dongle of PC or NB, the dongle must lately of BT version 2.0.

| Description | Setting | Setting Barcode | Cord ID |
|-----------------------|-----------|--|---------|
| Action mode setting | Real mode |  | A014A1 |
| Communication setting | HID mode |  | A003A |

8.3. Real mode setting under SPP




communication

If the customer want to raise the fault-tolerant of communication, the customer can choice the real mode and SPP communication mode.

The real mode under SPP communication, it is virtual serial port data communication between BTS600 and host device. It will make relevant communication protocols by setting to prevent the data lost.



it will need an application be install and running on the terminal host (like Android smart phone 、 PC) . please reference **【5. Bluetooth Connect Description】**

8.3.1. Real mode setting under SPP master mode

| Description | Setting | Setting Barcode | Cord ID |
|---|-----------------------|--|---------|
| Enter the physical address of BT module | Input |  | B001A |
| Communication start | Enter SPP Master mode |  | A001B |
| Action mode setting | Real mode |  | A014A1 |

please reference **【The Setting barcode about Bluetooth Device name of BTS600】of【9.2.1 System mode Setting】**


8.3.2. Real mode setting under Spp Slave mode


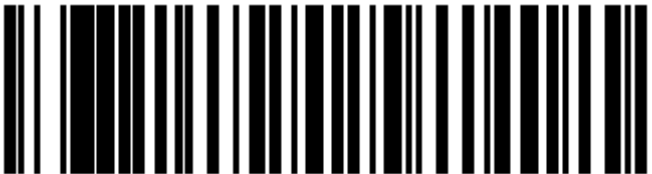
| Description | Setting | Setting Barcode | Cord ID |
|-----------------------|----------------|--|---------|
| Communication setting | SPP slave mode |  | A002A |
| Action mode setting | Real mode |  | A014A1 |

8.4. Hybrid mode setting under SPP communication



Because out of the communication or other reason that the Bluetooth disconnect, in order to avoid the lost of data, the system will save the scan data into the data file of memory of BTS600 on the Hybrid mode, so Hybrid mode have higher dependability the Real mode. Once after the Bluetooth reconnect complete, the system in accordance with storing in the order in the storing device file, and then pass back and give the end a not host computer. it will need an application be install and running on the terminal host (like Android smart phone 、 PC) . please reference **【5. Bluetooth Connect Description】**

8.4.1. Hybrid mode setting under SPP Master mode

| Description | Setting | Setting Barcode | Cord ID |
|---|---------|--|---------|
| Enter the physical address of BT module | Input |  | B001A |

| | | | |
|---------------------|-----------------------|--|--------|
| Communication start | Enter Spp Master mode |  | A001B |
| Action mode setting | Hybrid mode |  | A014A3 |

8.4.2. Hybrid mode setting under SPP Slave mode

| Description | Setting | Setting Barcode | Cord ID |
|-----------------------|----------------|--|---------|
| Communication setting | SPP slave mode |  | A002A |
| Action mode setting | Hybrid mode |  | A014A3 |

9. System Detail Setting

9.1. Factory Default Setting

BTS600 Factory Default setting as following tables.

| Item | Default |
|------------------------------|---|
| BTS600Action Mode | Real Mode |
| Communication Mode | HID mode |
| Device Name | BTS600+last 4 digital of BT MAC Address |
| Authentication | Disable |
| Encryption | Disable |
| PIN Code | “0000” |
| Power off time out | 3 minutes |
| Beep on Reconnect/Disconnect | Enable |
| Beep for bad scan | Enable |
| Sound Volume | High |

The default value of Real mode under HID communication as following table.

| Item | Default |
|---|---------------|
| Record Termination Character Setting | Return(Enter) |
| Function Key code Setting | Eject Key※ |
| Delay Time Before Data Transmission Setting | None |
| Delay Time Between Characters Setting | None |
| | |

※Press Fn Key will call soft keyboard of iPad, iPhone display / hide, The Fn key can be enable/disable by setting.

Under SPP communication the Real mode、Batch mode (Bluetooth data transfer mode) and Hybrid mode setting as following table。

| Item | Default |
|---|---------------------------------|
| Master Mode Reconnection Interval Setting | 30 seconds |
| SPP data transfer format | STX[ditital][Data][Checksum]ETX |
| ACK/NAK handling of SPP Communication Setting | Enable ACK/NAK handling ※ |

※On the Real mode、Batch mode the “ACK/NAK handling of SPP communication setting” can be set enable / disable, The Hybrid mode must enable can not change to disable。

The default value of Batch mode as follow table。

Those setting will not influence about Real mode initial.

| Item | Default |
|---|---|
| Time Stamp format | YYYY/MM/DD, hh:mm:ss |
| Record Termination Character Setting | CRLF |
| Termination Character Setting | , |
| Data transfer sequence setting | Unsent data only |
| Memory Initialization Setting After Data Transmission | Disable (The data file will not be deleted) |

The default value of Scanner as following table

| Item | Default |
|--|----------|
| Trigger Mode | Level |
| Codabar, MSI, Discrete 2of5, Interleave 2of5 | Level 4 |
| Inverse Barcode | Regular |
| Code ID character | Disable |
| UPC-A | Enable |
| UPE-E | Enable |
| UPE-E1 | Enable |
| EAN-8 | Enable |
| EAN-13 | Enable |
| Bookland EAN | Disable |
| Bookland ISBN Format | ISBN-10 |
| UPC/EAN supplemental (Add On) | None |
| UPC/EAN/JAN supplemental | Combined |
| AIM Code ID format | |
| UPC-A check digit | Enable |
| UPC-E check digit | Enable |
| UPC-E1 check digit | Enable |
| UPC-A preamble | System |
| UPC-E preamble | System |

| | |
|--------------------------------------|-------------|
| UPC-E1 preamble | System |
| UPC-E convert to UPC-A | Disable |
| UPC-E1 convert to UPC-A | Disable |
| EAN-8 convert to EAN-13 | Disable |
| UPC/EAN security level | Level 3 |
| UCC coupon expend code | Disable |
| Coupon Report | Both Coupon |
| ISS EAN | Disable |
| Code 128 | Enable |
| GS1-128 | Enable |
| ISBT-128 | Enable |
| ISBT- connect | Disable |
| ISBT table check | Enable |
| Code 39 | Enable |
| Trioptic Code 39 | Disable |
| Code39 convert to Code32 | Disable |
| Code32 prefix | Disable |
| Code39 check digital verify | Disable |
| Code39 check digital transfer | Disable |
| Code39 full ASCII transfer | Disable |
| Code 93 | Disable |
| Code 11 | Disable |
| Code 11 check digital verify | Disable |
| Code 11 check digital transfer | Disable |
| I 2 of 5(Interleave 2 of 5) | Enable |
| I 2 of 5 check digital verify | Disable |
| I2 of 5 check digital transfer | Disable |
| I2 of 5 convert to EAN13 | Disable |
| Discrete 2 of 5 | Disable |
| Chinese 2 of 5 | Disable |
| Matrix 2 of 5 | Disable |
| Matrix 2 of 5 Redundancy | Disable |
| Matrix 2 of 5 check digital verify | Disable |
| Matrix 2 of 5 check digital transfer | Disable |
| Codabar(NW7) | Enable |
| CLSI | Disable |
| NOTIS | Disable |

| | |
|-----------------------------|----------------|
| MSI | Disable |
| MSI check digital | One |
| MSI check digital transfer | Disable |
| MSI check digital algorithm | MOD 10 /mod 10 |
| GS1 Databar omnidirectional | Enable |
| GS1 DataBar Limited | Enable |
| GS1 DataBar Expanded | Enable |
| GS1 DataBar | Disable |

9.2. The setting Barcode of System



Having recorded the establishment bar code that this machine uses as follows, this machine is dispatched from the factory the setting up value and please reference [9.1 Factory Default setting], the user can scan the following establishment barcode to change the setting of BTS-600.



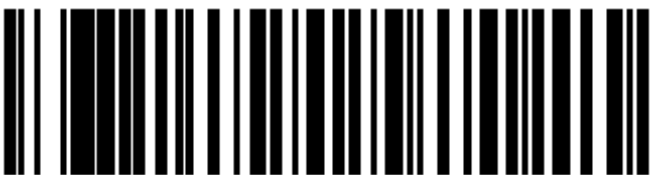

9.2.1. System mode setting

The Setting barcode of action mode and Bluetooth communication as follow..

Real mode :

When set up into Batch mode 、 Hybrid mode, if still there are records to exist in Data.txt file in the memory of BTS600, The BTS600 can't switch over into Real mode. It must delete Data.txt file in memory of BTS600 , then it could change into Real mode

| Description | Setting | Setting Barcode | Cord ID |
|-------------|-------------------------------|--|------------|
| Real Mode | SPP Master communication mode |  | A001B |
| | |  | A014A 1 |

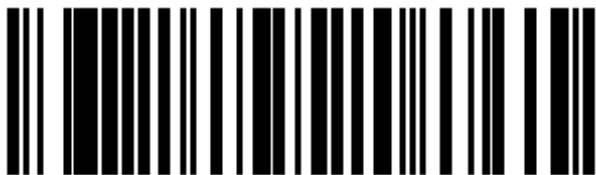


| | | | |
|--|--|--|------------|
| | SPP Slave commu- nication mode |  | A002A |
| | |  | A014A 1 |
| | HID commu- nication mode |  | A014A 1 |
| | |  | A003A |

※ Please enter the physical address of BT module of the Host device first, when use SPP Master communication mode.

Please reference **【The Setting barcode about physical address of Bluetooth module】**





Batch mode :

When use USB data transfer mode, need to set up SPP Slave communication mode again too °

| Descriptio n | Setting | Setting Barcode | Cord ID |
|-----------------|--|--|------------|
| Batch mode | USB Data transmis- sion mode |  | A002A |
| | |  | A014A 2 |
| | Data transmis- sion mode |  | A001B |

| | | | |
|--|-------------------------------------|--|------------|
| | under SPP Master communication mode |  | A014A 2 |
| | Data transmission mode |  | A002A |
| | under SPP Slave communication mode |  | A014A 2 |

Hybrid Mode :

| Description | Setting | Setting Barcode | Cord ID |
|-------------|-------------------------------|--|------------|
| Hybrid Mode | SPP Master Communication mode |  | A001B |
| | |  | A014A 3 |
| | SPP Slave communication mode |  | A002A |
| | |  | A014A 3 |


※ Please enter the physical address of BT module of the Host device first, when use SPP Master communication mode.

Please reference **【The Setting barcode about physical address of Bluetooth module】**

The Setting barcode about physical address of Bluetooth module

The originally setting barcode for the BTS600 to set up SPP Master mode, then BTS600 can know and fast connect with host computer.

The physical address of Bluetooth module is 12 digital, you can and only enter 0~9, A~F ◦
Please use barcode of **【9.2.6 Alpha-Numerical Setting barcode】** to enter the physical address of Bluetooth module ◦

| Description | Setting | Setting Barcode | Cord ID |
|---|---------|---|---------|
| Enter the physical address of BT module | Input |  | B001A |

The Setting barcode about Device Name of BTS600

The originally setting barcode for Bluetooth communication, that Bluetooth manager of host device (ex iPhon, iPad, Android smart phone , PC , NB) can search and set pairing connect with BTS600.

Default device name is “BTS600” + last 4 digital of physical address of BT module ◦

The customer can change the device name of BTS600 use follow setting barcode.



The customer can enter 31 character for device name, you can and only enter 0~9, A~Z, a~z ◦

Please use barcode of **【9.2.6 Alpha-Numerical Setting barcode】** to enter the Device name ◦



| Description | Setting | Setting Barcode | Cord ID |
|---------------------|---------|--|---------|
| Device name setting | Input |  | B011A |

The Setting barcode of Bluetooth Authentication

| Description | Setting | Setting Barcode | Cord |
|-------------|---------|-----------------|------|
|-------------|---------|-----------------|------|


| | | | ID |
|------------------------|---------|--|-------|
| Authentication Setting | Enable |  | A008A |
| | Disable |  | A008B |

The Setting barcode of Bluetooth Encryption

| Description | Setting | Setting Barcode | Cord ID |
|------------------------------|---------|--|---------|
| Bluetooth Encryption setting | Enable |  | A009A |
| | Disable |  | A009B |

The Setting barcode of PIN code

The customer can enter 16 character for PIN code, you can and only enter 0~9, A~Z, a~z ◦
Please use barcode of **【9.2.6 Alpha-Numerical Setting barcode】** to enter the PIN code ◦

| Description | Setting | Setting Barcode | Cord ID |
|------------------|---------|--|---------|
| PIN code setting | input |  | B018A |



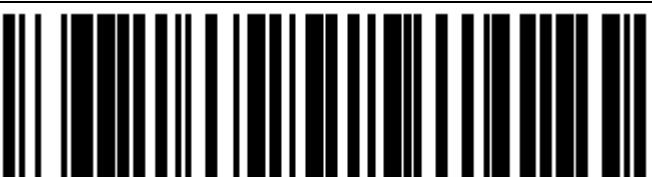




The Setting barcode of Default PIN Code

The default PIN code is 『0000』

| Setting | Setting Barcode | Cord ID |
|---------|-----------------|---------|
|---------|-----------------|---------|

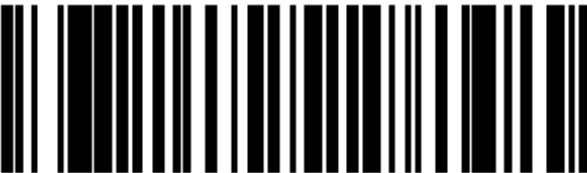
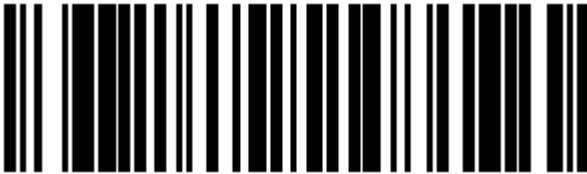
| | | |
|---------------------------------|--|-------|
| Return default PIN code setting |  | A017A |
|---------------------------------|--|-------|

The Setting Barcode of Power off time out

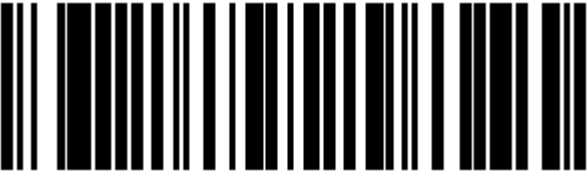
| Description | Setting | Setting Barcode | Cord ID |
|-----------------------------|------------|--|---------|
| Power off time out setting. | 1 minutes |  | A004A1 |
| | 3 minutes |  | A004A2 |
| | 5 minutes |  | A004A3 |
| | 10 minutes |  | A004A4 |
| | 15 minutes |  | A004A5 |
| | 30 minutes |  | A004A6 |
| | 45 minutes |  | A004A7 |

| | | | |
|--|---------------|--|--------|
| | 60 minutes |  | A004A8 |
|--|---------------|--|--------|


The Setting Barcode of Beep on Reconnect/Disconnect



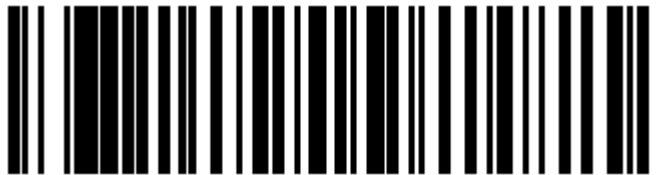
| Description | Setting | Setting Barcode | Cord ID |
|--|---------|---|---------|
| The Beep on reconnect / disconnect setting | Enable |  | A005A |
| | Disable |  | A005B |

The Setting Barcode of Beep for bad scan

| Description | Setting | Setting Barcode | Cord ID |
|-------------------------------|---------|--|---------|
| The Beep for bad scan setting | Enable |  | A006A |
| | Disable |  | A006B |

The Setting Barcode of Sound volume

| Description | Setting | Setting Barcode | Cord ID |
|--------------------------|---------|--|---------|
| The sound volume setting | Off |  | A010A0 |

| | | | |
|--|--------|--|--------|
| | Low |  | A010A1 |
| | Middle |  | A010A2 |
| | High |  | A010A3 |

The Setting Barcode of restore Factory Default


| Setting | Setting Barcode | Cord ID |
|---------------------------------|---|---------|
| Restore Factory default setting |  | A012A |

wh

9.2.2. HID Communication Setting

This is advanced establishment when Real mode under HID communicates ◦

HID termination character setting

| Description | Setting | Setting Barcode | Cord ID |
|-----------------------------------|---------|--|---------|
| HID termination character setting | 0x28 |  | A021A |

The customer can utilize the following establishment bar codes to set up the ' additional characters ' to the data.





The Key code setting must 2 digital word, and the word can only 0~9, A ~ F.

For example, Scan the barcode Id 「 B019B 」 first, then 「 2 」、「 0 」、「 EOC 」 , The Key Code

is 『 # 』

Please use barcode of **【9.2.6 Alpha-Numerical Setting barcode】** to enter the additional characters °

HID termination character setting

| Description | Setting | Setting Barcode | Cord ID |
|--|---------|--|---------|
| Normal Key setting | Input |  | B021A |
| additional characters +Shift Key setting | Input |  | B021B |
| additional characters +Alt Key setting | Input |  | B021C |
| additional characters +Ctrl Key setting | Input |  | B021D |

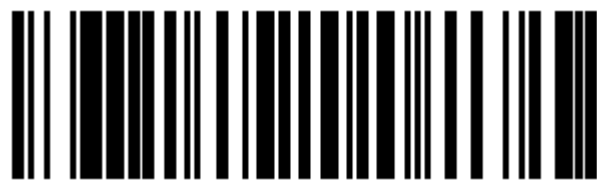
The customer can utilize the following establishment bar code to set up the key code beyond 'Eject Key.

The Key code setting must 2 digital word, and the word can only 0~9, A ~ F.

For example, Scan the barcode Id 「 B019B 」 first, then 「 2 」、「 0 」、「 EOC 」 , The Key Code is 『 # 』

Please use barcode of **【9.2.6 Alpha-Numerical Setting barcode】** to enter the Key code °

The setting barcode for transfer key code of Function key under Communication

| Description | Setting | Setting Barcode | Cord ID |
|---|---------|--|---------|
| Transfer key code of function key under | Disable |  | A022A |

| | | | |
|-----------------------|--------|--|-------|
| communication setting | Enable |  | A022B |
|-----------------------|--------|--|-------|

The setting barcode for the association key code that will be sent while pushing Fn key

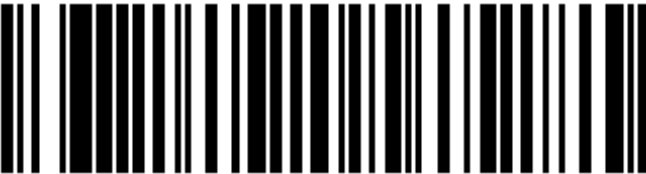
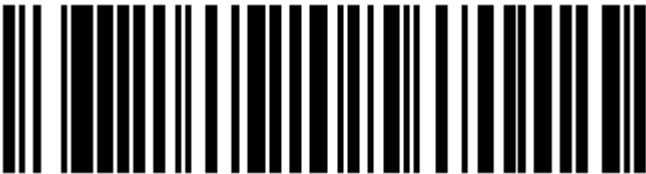

| Description | Setting | Setting Barcode | Cord ID |
|--|---------|--|---------|
| Normal Function Key Code Setting under HID real mode setting | Input |  | B022A |
| Function Key Code + Shift Key code Setting under HID real mode setting | Input |  | B022B |
| Function Key Code + Alt Key code Setting under HID real mode setting | Input |  | B022C |
| Function Key Code + Ctrl Key code Setting under HID real mode setting | Input |  | B022D |

The setting Barcode for delay time before data transmission under BT communication

| Description | Setting | Setting Barcode | Cord ID |
|-------------|---------|-----------------|---------|
|-------------|---------|-----------------|---------|

| | | | |
|--|--------|---|--------|
| The delay time before sending data of each record can be set | None |  | A023A0 |
| | 100 ms |  | A023A1 |
| | 200 ms |  | A023A2 |
| | 300 ms |  | A023A3 |
| | 500 ms |  | A023A4 |

The setting barcode delay time between characters under BT communication


| Description | Setting | Setting Barcode | Cord ID |
|---|---------|--|---------|
| The delay time between characters of sending data can be set. | none |  | A024A0 |
| | 10 ms |  | A024A1 |
| | 20 ms |  | A024A2 |

| | | | |
|--|-------|--|--------|
| | 30 ms |  | A024A3 |
|--|-------|--|--------|

Data Format Setting Under HID Communication Mode

When CYCLOPS-II is in HID Mode.

HID mode Header Character Setting

| Description | Setting | Setting Barcode | Code ID |
|-----------------|---------|--|---------|
| HID Mode Header | NON |  A115A | A115A |

Setting Barcode for Header


Header setting must be 2-digit word and the word can only be 0~9 and A ~ F.

For example, scan the barcode ID”B115B” first, then, “0”,”4”, and “EOC”. The header set will be “A”.


Please use barcodes listed in <9.2.6 Alpha-Numerical Setting Barcode> to enter header.

For details of this 2-digit data entry, please refer to *Appendix 3*.

HID mode Header Character Setting

| Description | Setting | Setting Barcode | Code ID |
|-------------|---------|---|---------|
| Normal-Key | Input |  B115A | B115A |
| +Shift Key | Input |  B115B | B115B |
| +Alt Key | Input |  B115C | B115C |
| +Ctrl Key | Input |  B115D | B115D |

HID mode Footer Character Setting

| Description | Setting | Setting Barcode | Code ID |
|-----------------|---------|--|---------|
| HID Mode Footer | None |  A116A | A116A |

Setting Barcode of Footer





Footer setting must be 2-digit word and the word can only be 0~9 and A ~ F.

For example, scan the barcode ID”B116B” first, then, “0”,”4”, and “EOC”. The footer set will be “A”.

Please use barcodes listed in <9.2.6 Alpha-Numerical Setting Barcode> to enter footer.

For details of this 2-digit data entry, please refer to *Appendix 3*.

HID mode Footer Character Setting

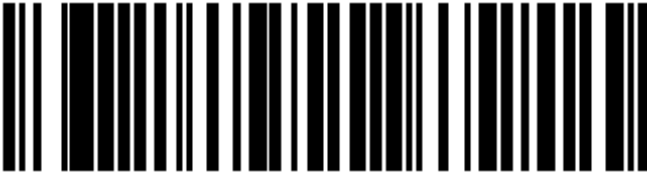
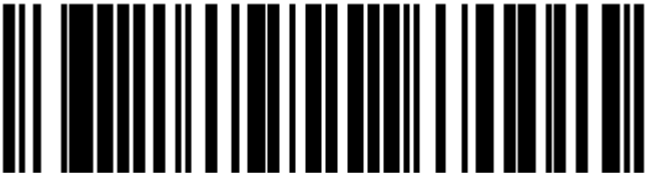



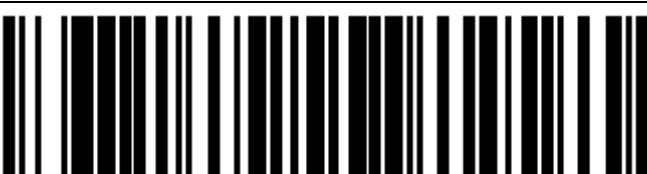
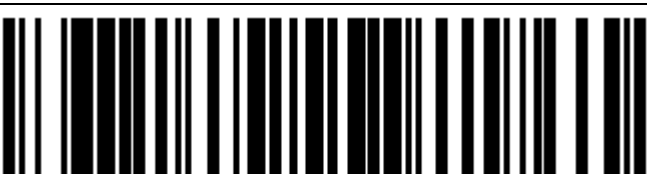
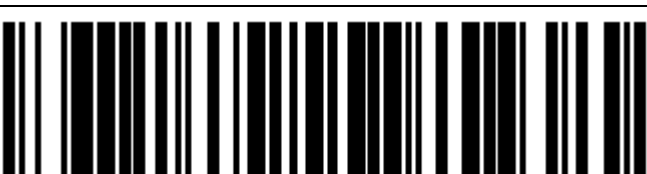
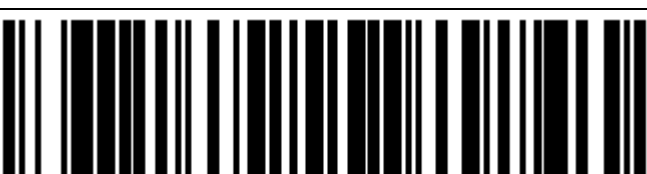
| Description | Setting | Setting Barcode | Code ID |
|-------------|---------|---|---------|
| Normal-Key | Input |  B116A | B116A |
| +Shift Key | Input |  B116B | B116B |
| +Alt Key | Input |  B116C | B116C |
| +Ctrl Key | Input |  B116D | B116D |

9.2.3. SPP Communication Setting

This item is advance setting about Real mode, Batch mode(Bluetooth data transfer mode)and Hybrid mode under SPP communicate.

The setting barcode for SPP Master reconnect time interval

| Description | Setting | Setting Barcode | Cord ID |
|-------------|---------|-----------------|---------|
|-------------|---------|-----------------|---------|

| | | | |
|---|--------|--|--------|
| SPP Master reconnect time interval setting | None |  | A007A0 |
| | 15 sec |  | A007A1 |
| | 30 sec |  | A007A2 |
| | 45 sec |  | A007A3 |
| | 1 min |  | A007A4 |
| | 5 min |  | A007A5 |
| | 10 min |  | A007A6 |
| | 15 min |  | A007A7 |
| | 30 min |  | A007A8 |

The transfer data format setting under SPP communication


When set up into Batch mode、Hybrid mode, if still there are records to exist in Data.txt file in the memory of BTS600, The follow settings that can not be changed。


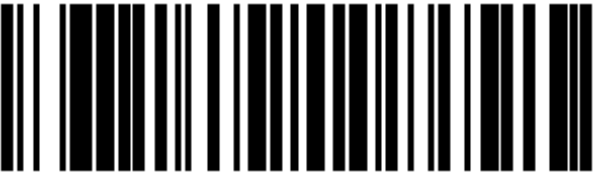
The setting barcode of Prefix



The prefix setting must 2 digital word, and the word can only 0~9, A ~ F.

For example, Scan the barcode Id「B019A」 first, then 「3」、「3」、「EOC」, prefix is 『,』

Please use barcode of **【9.2.6 Alpha-Numerical Setting barcode】** to enter the Prefix。

| Description | Setting | Setting Barcode | Cord ID |
|----------------|-----------|--|---------|
| Prefix Setting | STX(0x02) | | — |
| | Input |  | B019A |

| Description | Setting | Setting Barcode | Cord ID |
|-----------------|---------------|--|---------|
| Digital Setting | Digital exist |  | A019A |
| | No Digital |  | A019B |


| Description | Setting | Setting Barcode | Cord ID |
|------------------|----------------|--|---------|
| Checksum Setting | Checksum exist |  | A019C |
| | No Checksum |  | A019D |

The setting barcode of Suffix

The suffix setting must 2 digital word, and the word can only 0~9, A ~ F.

For example, Scan the barcode Id 「B019A」 first, then 「3」、「3」、「EOC」, Suffix is 『 , 』



Please use barcode of **【9.2.6 Alpha-Numerical Setting barcode】** to enter the Suffix .

| Description | Setting | Setting Barcode | Cord ID |
|-------------|-----------|--|---------|
| Suffix | ETX(0x03) | | — |
| Setting | Input |  | B019B |


The setting barcode for the handshake of SPP communication

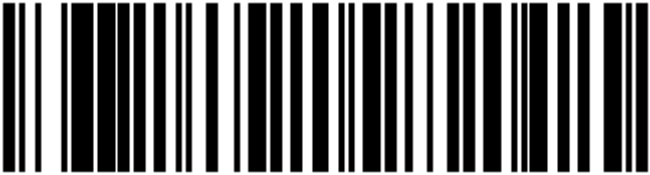

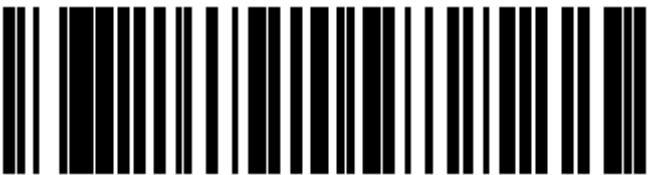




When set up into Batch mode、Real mode, the customer can setting to enable / disable of “ACK/NAK of SPP communication”, if Set up into Hybrid mode. It must set enable of “ACK/NAK of SPP communication”, and it could not change to disable

The setting barcode about ACK/NAK of SPP communication

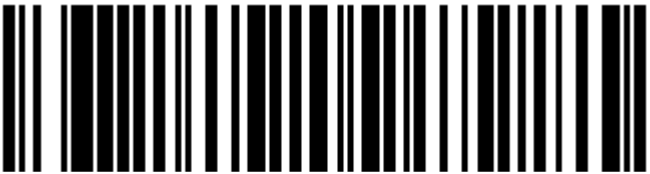
| Description | Setting | Setting Barcode | Cord ID |
|---------------------------------------|---------|--|---------|
| ACK /NAK of SPP communication setting | Enable |  | A020A |
| | Disable |  | A020B |




The setting barcode for time out of ACK/NAK of SPP communication

| Description | Setting | Setting Barcode | Cord ID |
|---|---------|--|---------|
| Time out of ACK /NAK of SPP communication | 100 ms |  | A020C1 |

| | | | |
|------------|-----------|--|--------|
| on setting | 200 ms |  | A020C2 |
| | 300 ms |  | A020C3 |
| | 500 ms |  | A020C4 |
| | 1 seconds |  | A020C5 |
| | 2 seconds |  | A020C6 |
| | 3 seconds |  | A020C7 |
| | 5 seconds |  | A020C8 |

The Setting barcode for retry cycle of ACK/NAK of SPP communication

| Description | Setting | Setting Barcode | Cord ID |
|--|---------|--|---------|
| Retry cycle of ACK /NAK of SPP communicati | None |  | A020D0 |

| | | | |
|------------|----------|--|--------|
| on setting | 1 cycle |  | A020D1 |
| | 2 cycles |  | A020D2 |
| | 3 cycles |  | A020D3 |

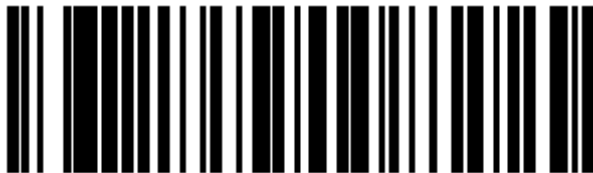
The setting barcode for key code send when press Fn Key

The Key code setting must 2 digital word, and the word can only 0~9, A ~ F.

For example, Scan the barcode Id「 B019A 」 first, then 「 3 」、「 3 」、「 EOC 」、Key code is 『 , 』

Please use barcode of **【9.2.6 Alpha-Numerical Setting barcode】** to enter the Key code ◦

Please reference key code on **Append 2**

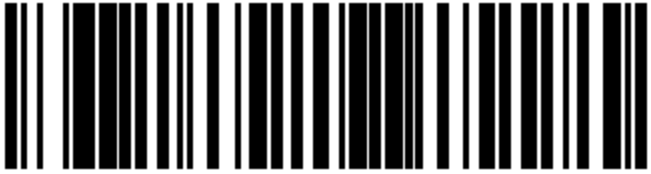
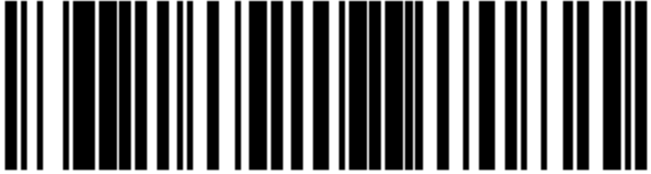
| Description | Setting | Setting Barcode | Cord ID |
|---|-----------------|--|---------|
| Key code sent when press Fn Key setting | None(Default) | | — |
| Key code sent when press Fn Key setting | Input |  | B019C |

9.2.4. Batch mode setting



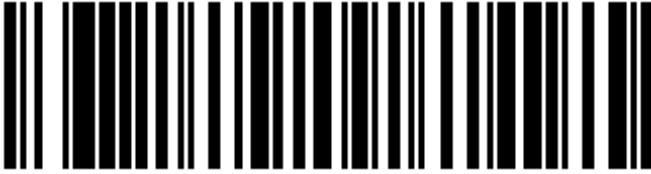
This item is advance setting about Batch mode



The setting barcode for time stamp


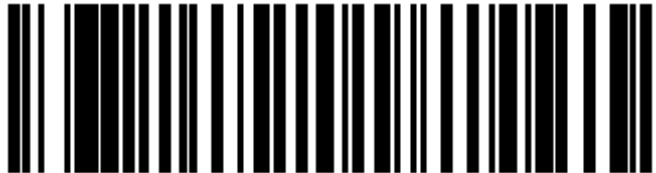



| Description | Setting | Setting Barcode | Cord ID |
|-------------|---------|-----------------|---------|
|-------------|---------|-----------------|---------|

| | | | |
|--------------------|--|--|--------|
| Time stamp Setting | Disable (____# ____) ※_ is space |  | A027A0 |
| | Enable (YYYY/ MM/DD# hh:mm:ss) |  | A027A1 |


※ The “#” is a termination character, please reference 「Termination Character Setting」 on the following table

| Description | Setting | Setting Barcode | Cord ID |
|-------------------------------|---------|--|---------|
| Termination Character Setting | ; |  | A028A1 |
| | Space |  | A028A2 |
| | Tab |  | A028A3 |

| Description | Setting | Setting Barcode | Cord ID |
|--------------------------------------|---------|--|---------|
| Record Termination Character Setting | None |  | A026A0 |
| | , |  | A026A1 |

| | | | |
|--|-------|---|--------|
| | Space |  | A026A2 |
| | CR |  | A026A3 |
| | LF |  | A026A4 |
| | CRLF |  | A026A5 |
| | Tab |  | A026A6 |

The Setting barcode for RTC time clock


| Description | Setting | Setting Barcode | Cord ID |
|-----------------------|---------|--|---------|
| Read RTC date Setting | Start |  | A034A |

Year : please set up 4 digital , Pleas use AD.

Month : please set up 2 digital ◦

Date : please set up 2 digital ◦

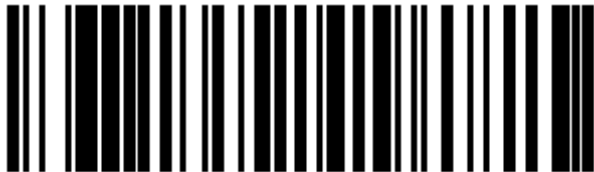
Please use barcode of **【9.2.6 Alpha-Numerical Setting barcode】** to enter the Date ◦

| Description | Setting | Setting Barcode | Cord ID |
|----------------------|---------|--|---------|
| Set RTC date setting | Input |  | B035A |

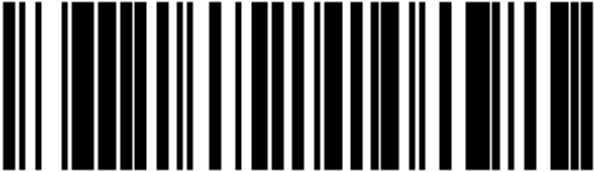
Hour : please set up 2 digital ◦

Minutes : please set up 2 digital ◦

Please use barcode of **【9.2.6 Alpha-Numerical Setting barcode】** to enter the Time ◦ ◦

| Description | Setting | Setting Barcode | Cord ID |
|----------------------|---------|--|---------|
| Set RTC time setting | input |  | B036A |



The Setting Barcode about Bluetooth data transfer

| Description | Setting | Setting Barcode | Cord ID |
|--|--|---|---------|
| BT Data Transmission Mode Change setting | Batch mode ↔ BT Data Transmission Mode |  | A033A |



※This is same with press Scan + Fn Key

| Description | Setting | Setting Barcode | Cord ID |
|--------------------------------|------------------|--|---------|
| Data transfer sequence setting | From top |  | A038A1 |
| | Unsent data only |  | A038A2 |

| Description | Setting | Setting Barcode | Cord ID |
|-------------|---------|-----------------|---------|
|-------------|---------|-----------------|---------|

| | | | |
|---|---------|--|-------|
| Memory Initialization Setting After Data Transmission Setting | Enable |  | A030A |
| | Disable |  | A030B |

The setting Barcode of Fn key

| Description | Setting | Setting Barcode | Cord ID |
|-------------------|---------|--|---------|
| Func. Key Setting | Enable |  | A037A |
| | Disable |  | A037B |











The setting barcode for USB memory initialization

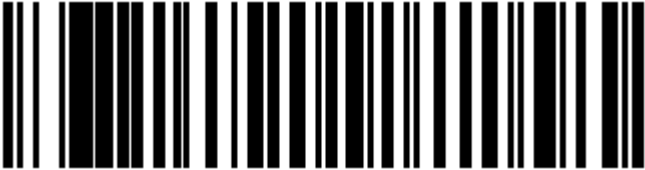


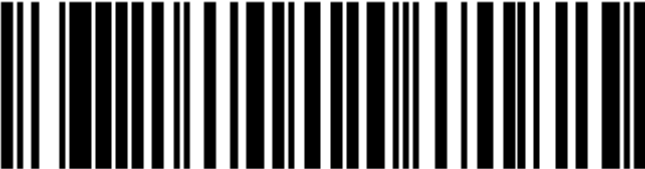





The data file will be deleted on the USB memory include Data.txt and system.cfg

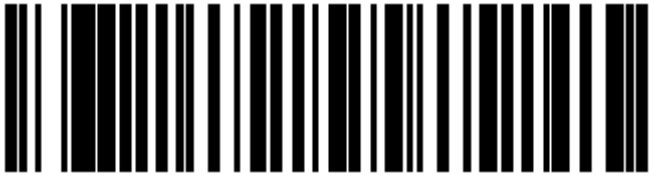





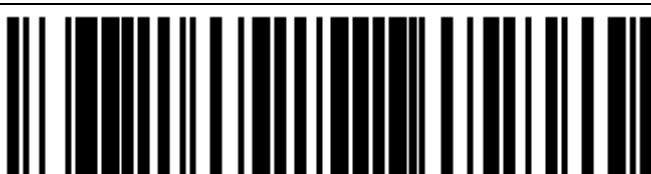
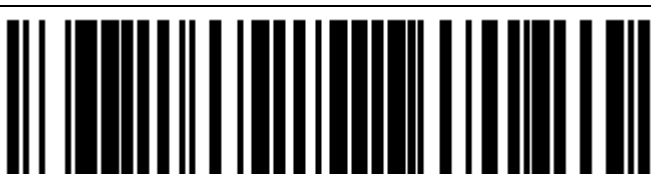

| Description | Setting Barcode | Cord ID |
|-----------------------|--|---------|
| Memory Initialization |  | A029A |










9.2.5. Barcode Data and Scanner Setting


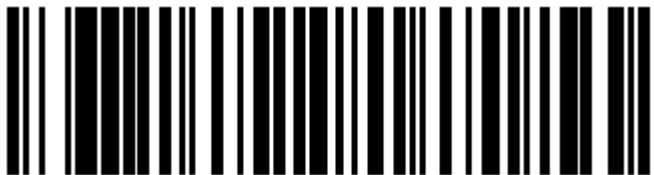




| Description | Setting | Setting Barcode | Cord ID |
|-------------|---------|-----------------|---------|
|-------------|---------|-----------------|---------|


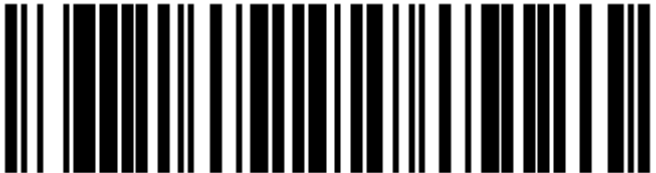



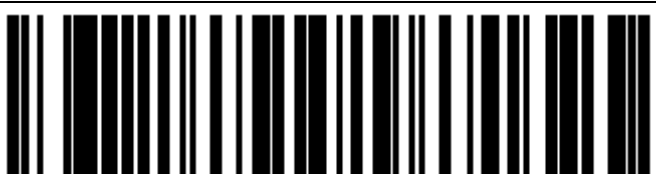

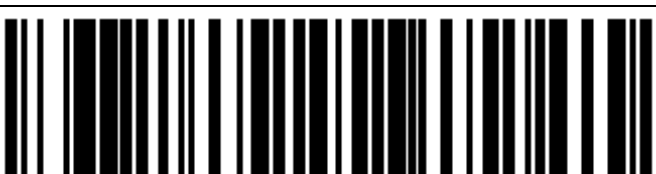

| | | | |
|---|----------------------------|--|--------|
| Trigger Mode | Level |  | A040A0 |
| | Continuous |  | A040A1 |
| Linear Code Type Security Level For Codabar MSI Discrete2of5 Interleaved2of5 | Level 1 |  | A041A1 |
| | Level 2 |  | A041A2 |
| | Level 3 |  | A041A3 |
| | Level 4 |  | A041A4 |
| Inverse 1D | Regular |  | A098A0 |
| | |  | |
| | Only Inverse Barcode |  | A098A1 |
| | |  | |

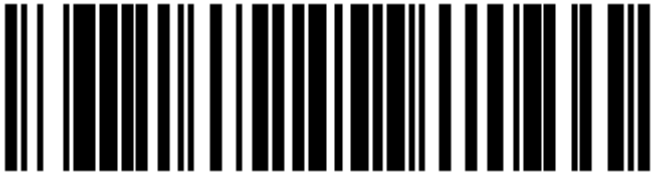
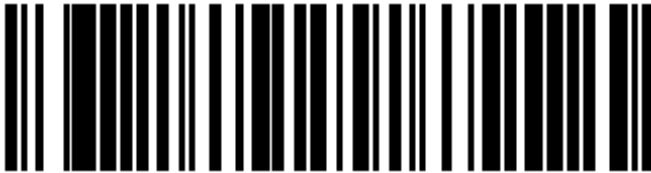







| | | | |
|---------|----------------|--|--------|
| | Auto |  | A098A2 |
| | |  | |
| Code ID | None |  | A112A0 |
| | AIM Code ID |  | A112A1 |
| | Symbol Code ID |  | A112A2 |
| UPC-A | Disable |  | A042A0 |
| | Enable |  | A042A1 |
| UPE-E | Disable |  | A043A0 |
| | Enable |  | A043A1 |


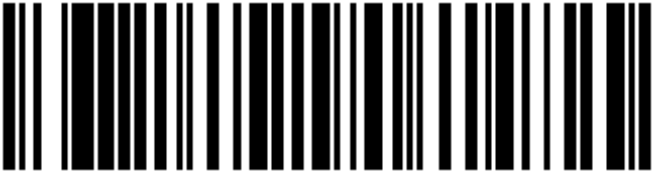
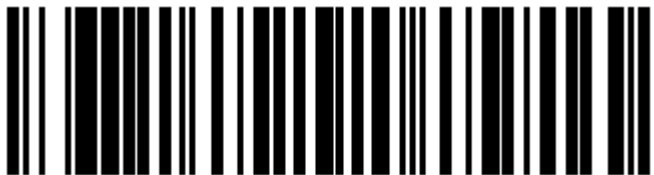

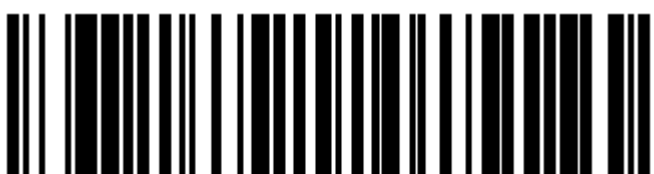




| | | | |
|-------------------------|---------|--|--------|
| UPE-E1 | Disable |  | A044A0 |
| | Enable |  | A044A1 |
| EAN-8 | Disable |  | A045A0 |
| | Enable |  | A045A1 |
| EAN-13 | Disable |  | A046A0 |
| | Enable |  | A046A1 |
| Bookland EAN | Disable |  | A047A0 |
| | Enable |  | A047A1 |
| Bookland ISBN format | ISBN-10 |  | A048A0 |



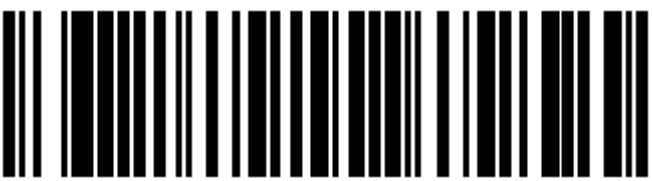
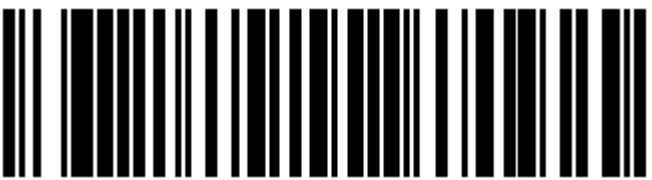

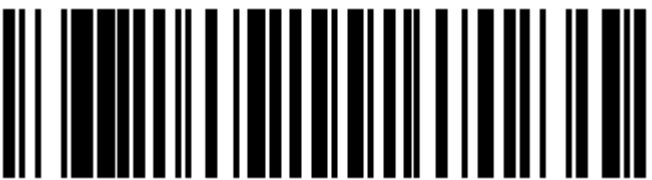

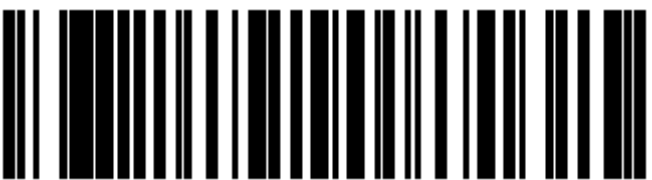

| | | | |
|------------------------------------|--|--|--------|
| | ISBN-13 |  | A048A1 |
| Decode UPC/EAN Supplementals | Ignore supplemental |  | A049A0 |
| | Decode with supplemental |  | A049A1 |
| | Autodiscriminate UPC/EAN supplemental |  | A049A2 |
| | Enable smart supplemental mode |  | A049A3 |
| | Enable 378/379 supplemental mode |  | A049A4 |
| | Enable 978/979 supplemental mode |  | A049A5 |
| | Enable 414/419/434/439 supplemental mode |  | A049A6 |
| | Enable 977 supplemental mode |  | A049A7 |


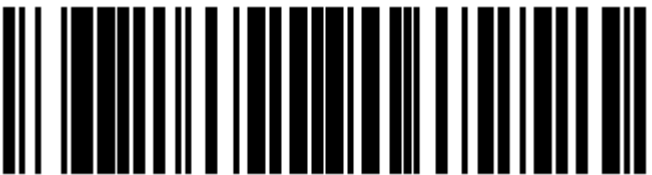
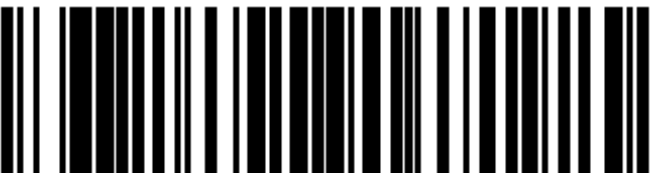
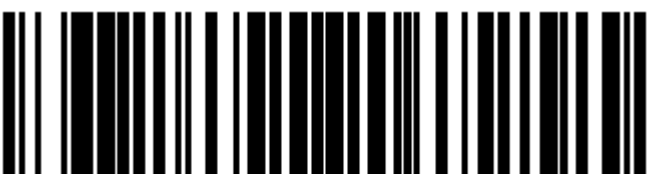


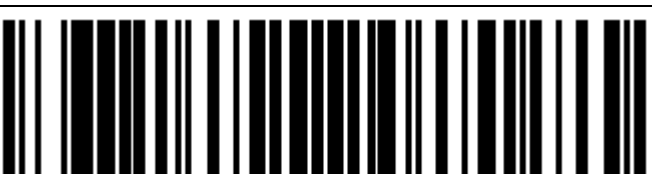

| | | | |
|--------------------------------|------------------------------|--|--------|
| | Enable 491 supplemental mode |  | A049A8 |
| UPC/EAN/JAN AIM Code ID format | Separate |  | A051A0 |
| | Combined |  | A051A1 |
| | Separate Transmissions |  | A051A2 |
| UPC-A check Digital Transfer | Disable |  | A052A0 |
| | Enable |  | A052A1 |
| UPC-E check digital Transfer | Disable |  | A053A0 |
| | Enable |  | A053A1 |
| UPC-E1 check digital Transfer | Disable |  | A054A0 |

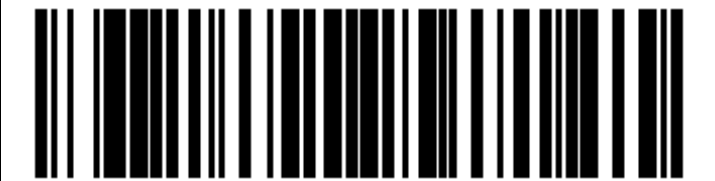
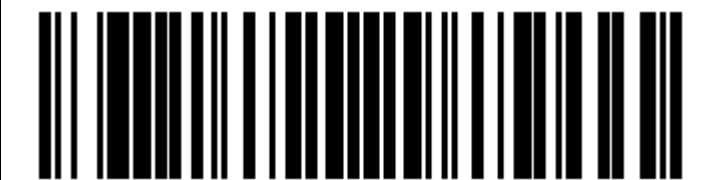

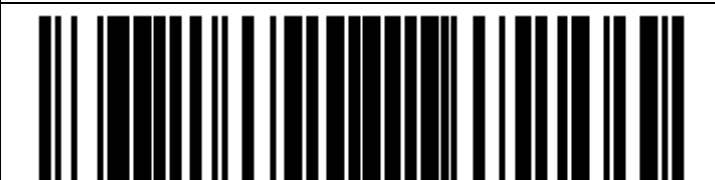
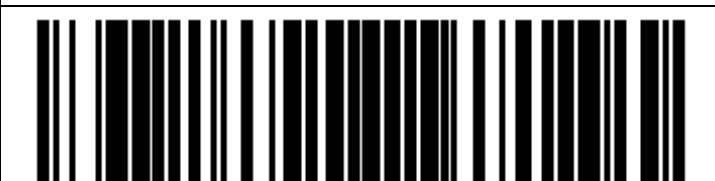




| | | | |
|--------------------|-----------------|--|--------|
| | Enable |  | A054A1 |
| UPC-A preamble | None |  | A055A0 |
| | System |  | A055A1 |
| | Country code |  | A055A2 |
| UPC-E preamble | None |  | A056A0 |
| | System |  | A056A1 |
| | Country code |  | A056A2 |
| UPC-E1 preamble | None |  | A057A0 |
| | System |  | A057A1 |




| | | | |
|-------------------------|--------------|--|--------|
| | Country code |  | A057A2 |
| UPC-E convert to UPC-A | Disable |  | A058A0 |
| | Enable |  | A058A1 |
| UPC-E1 convert to UPC-A | Disable |  | A059A0 |
| | Enable |  | A059A1 |
| EAN-8 convert to EAN-13 | Disable |  | A060A0 |
| | Enable |  | A060A1 |
| UPC/EAN security level | Level 0 |  | A061A0 |
| | Level 1 |  | A061A1 |

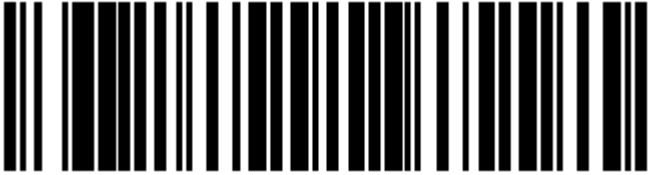
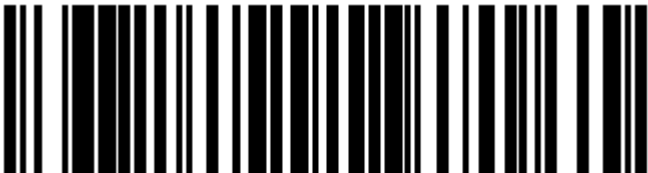

| | | | |
|---------------------------|----------------------|--|--------|
| | Level 2 |  | A061A2 |
| | Level 3 |  | A061A3 |
| UPC coupon extend code | Disable |  | A062A0 |
| | Enable |  | A062A1 |
| Coupon Report | Old coupon report |  | A063A0 |
| | New coupon report |  | A063A1 |
| | Both Coupon |  | A063A2 |
| ISSN EAN | Disable |  | A064A0 |
| | Enable |  | A064A1 |

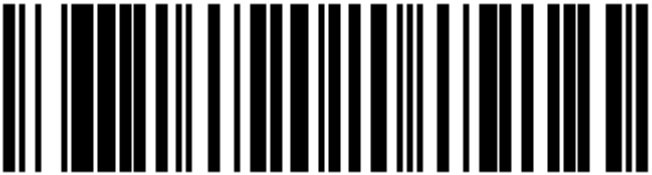
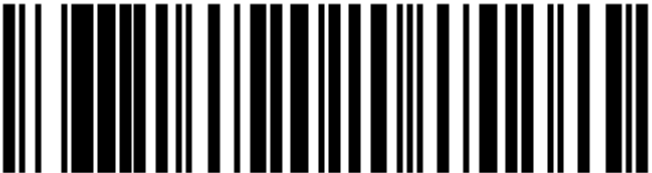







| | | | |
|--------------------|---------|--|--------|
| Code128 | Disable |  | A065A0 |
| | Enable |  | A065A1 |
| GS1-128 | Disable |  | A067A0 |
| | Enable |  | A067A1 |
| ISBT 128 | Disable |  | A068A0 |
| | Enable |  | A068A1 |
| ISBT Concatenation | Disable |  | A069A0 |
| | Enable |  | A069A1 |
| | Auto |  | A069A2 |



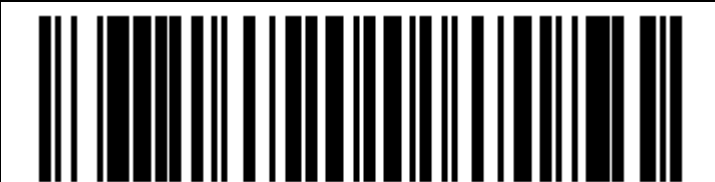






| | | | |
|--------------------------|---------|--|--------|
| Check ISBT Table | Disable |  | A070A0 |
| | Enable |  | A070A1 |
| Code 39 | Disable |  | A071A0 |
| | Enable |  | A071A1 |
| Trioptic Code 39 | Disable |  | A072A0 |
| | Enable |  | A072A1 |
| Convert Code39 to Code32 | Disable |  | A073A0 |
| | Enable |  | A073A1 |
| Code32 Prefix | Disable |  | A074A0 |

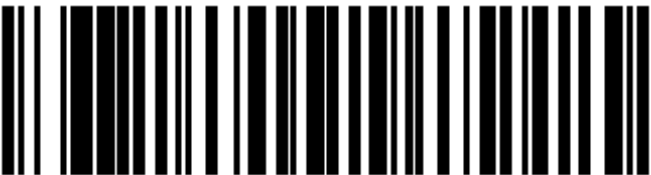

| | | | |
|---------------------------------|---------|--|--------|
| | Enable |  | A074A1 |
| Code39 Check Digit Verification | Disable |  | A076A0 |
| | Enable |  | A076A1 |
| Transmit Code39 Check Digit | Disable |  | A077A0 |
| | Enable |  | A077A1 |
| Code39 Full ASCII | Disable |  | A078A0 |
| | Enable |  | A078A1 |
| Code 93 | Disable |  | A079A0 |
| | Enable |  | A079A1 |

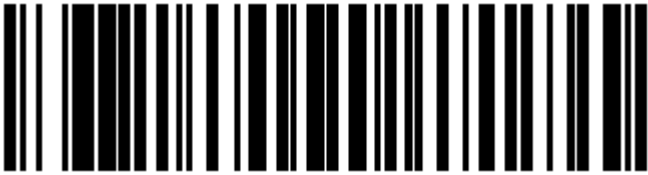
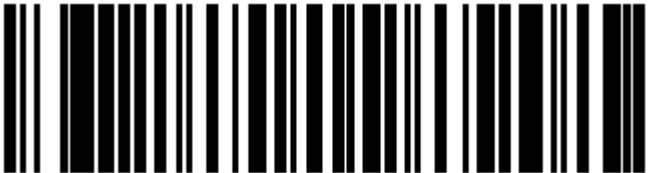
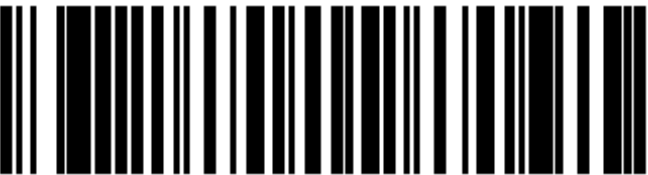


| | | | |
|---------------------------------------|-------------|--|--------|
| Code 11 | Disable |  | A081A0 |
| | Enable |  | A081A1 |
| Code11 Check Digit Verification | Disable |  | A083A0 |
| | One Digital |  | A083A1 |
| | Two Digital |  | A083A2 |
| Transmit Code11 Check Digit | Disable |  | A084A0 |
| | Enable |  | A084A1 |
| Interleaved 2 of 5 | Disable |  | A085A0 |
| | Enable |  | A085A1 |

| | | | |
|-----------------------------------|------------------|--|--------|
| I 2 of 5 Check Digit Verification | Disable |  | A087A0 |
| | USS check digit |  | A087A1 |
| | OPCC check digit |  | A087A2 |
| Transmit I 2 of 5 Check Digit | Disable |  | A088A0 |
| | Enable |  | A088A1 |
| Convert I 2 of 5 to EAN-13 | Disable |  | A089A0 |
| | Enable |  | A089A1 |
| Discrete 2 of 5 | Disable |  | A090A0 |
| | Enable |  | A090A1 |

| | | | |
|---------------------------------------|---------|--|--------|
| Chinese 2 of 5 | Disable |  | A092A0 |
| | Enable |  | A092A1 |
| Matrix 2 of 5 | Disable |  | A093A0 |
| | Enable |  | A093A1 |
| Matrix 2 of 5 Redundancy | Disable |  | A095A0 |
| | Enable |  | A095A1 |
| Matrix Check Digit Verification | Disable |  | A096A0 |
| | Enable |  | A096A1 |
| Transmit Matrix Check Digit | Disable |  | A097A0 |



| | | | |
|---------------|---------|--|--------|
| | Enable |  | A097A1 |
| Codabar(NW7) | Disable |  | A099A0 |
| | Enable |  | A099A1 |
| CLSI Editing | Disable |  | A101A0 |
| | Enable |  | A101A1 |
| NOTIS Editing | Disable |  | A102A0 |
| | Enable |  | A102A1 |
| MSI | Disable |  | A103A0 |
| | Enable |  | A103A1 |

















| | | | |
|---------------------------|---------|--|--------|
| MSI Check Digits | Disable |  | A105A0 |
| | Enable |  | A105A1 |
| Transmit MSI Check Digit | Disable |  | A106A0 |
| | Enable |  | A106A1 |
| MSI Check Digit Algorithm | Disable |  | A107A0 |
| | Enable |  | A107A1 |
| GS1-DataBar | Disable |  | A108A0 |
| | Enable |  | A108A1 |
| GS1 DataBar Limited | Disable |  | A109A0 |

| | | | |
|--------------------------------|---------|---|--------|
| | Enable |  | A109A1 |
| GS1 DataBar Expanded | Disable |  | A110A0 |
| | Enable |  | A110A1 |
| Convert GS1 DataBar to UPC/EAN | Disable |  | A111A0 |
| | Enable |  | A111A1 |
| | | | |



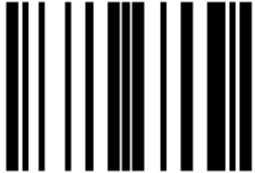















9.2.6. Alpha-Numerical Setting barcode



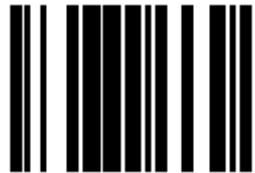


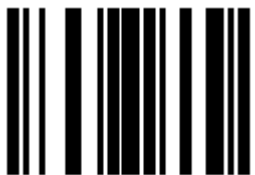












This item is for input of Alpha Numerical setting.






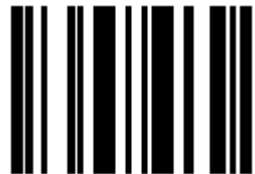










| Descript | Setting Barcode | Code ID |
|------------|--|---------|
| Stop Input |  | EOC |
| Cancel |  | CL |

| Descript | Setting Barcode | Code ID | Setting Barcode | Code ID |
|------------------------------|---|---------|--|---------|
| Numerical (Include Hex) |  | 0 |  | 1 |
| |  | 2 |  | 3 |
| |  | 4 |  | 5 |
| |  | 6 |  | 7 |
| |  | 8 |  | 9 |
| |  | A |  | B |
| |  | C |  | D |
| |  | E |  | F |

| Descript | Setting Barcode | Code ID | Setting Barcode | Code ID |
|----------|-----------------|---------|-----------------|---------|
|----------|-----------------|---------|-----------------|---------|

| | | | | |
|-------------------|---|---|--|---|
| Alphabetic Letter |  | A |  | B |
| |  | C |  | D |
| |  | E |  | F |
| |  | G |  | H |
| |  | I |  | J |
| |  | K |  | L |
| |  | M |  | N |
| |  | O |  | P |
| |  | Q |  | R |

| | | | |
|---|---|--|---|
|  | S |  | T |
|  | U |  | V |
|  | W |  | X |
|  | Y |  | Z |
|  | a |  | b |
|  | c |  | d |
|  | e |  | f |
|  | g |  | h |
|  | i |  | j |

| | | | |
|---|---|--|---|
|  | k |  | l |
|  | m |  | n |
|  | o |  | p |
|  | q |  | r |
|  | s |  | t |
|  | u |  | v |
|  | w |  | x |
|  | y |  | z |

10. Appendix 1

How to make the setting Code

The code type of BTS600 setting code is Code128

The customer can make the setting code of BT drive address and BT device name by yourself.

How to make the setting barcode of Bluetooth Driver Address

| Start Code | Setting ID | Address (Alpha numerical) |
|------------|------------|-----------------------------|
| FNC4 | A001A | 0 ~ 9 , A~ F |

| | |
|------------------|--|
| Ex. 0011223388AF |  <FNC4> A001A 0011223388AF |
|------------------|--|

※ The barcode muse has a space between FNC4 and A001A.

Example . How to make the setting barcode of Bluetooth device Name

| Start Code | Setting ID | Address (Alpha numerical) |
|------------|------------|-----------------------------|
| FNC4 | A011A | 0 ~ 9 , A~ Z, a ~z |

| | |
|---------------------|---|
| Ex. DatatCollector1 |  <FNC4> A011ADatatCollector1 |
|---------------------|---|

※ The barcode muse has a space between FNC4 and A001A.

11. Appendix 2

About Key Code

Function key is pressed during Real mode under HID connection, Function Key code Setting will set up the key code when press Fn key on the Real mode under HID communication.

The Key code for terminal host (Android , iPhone, iPad) as follow

| Key Code(Hex) | Normal | +Shift |
|---------------|------------------|--------|
| 1E | 1 | ! |
| 1F | 2 | @ |
| 20 | 3 | # |
| 21 | 4 | \$ |
| 22 | 5 | % |
| 23 | 6 | ^ |
| 24 | 7 | & |
| 25 | 8 | * |
| 26 | 9 | (|
| 27 | 0 |) |
| 28 | Return (Enter) | |
| 2B | Tab | |
| 2C | Space | |
| 2D | — | - |
| 2E | = | + |
| 2F | { | { |
| 30 | } | } |
| 31 | \ | \$ |
| 33 | ; | : |
| 34 | “ | ” |
| 36 | , | < |
| 37 | . | > |
| 38 | / | ? |

12. Appendix 3

USB HID Key Code Definition

| | | | | | | | |
|-----|------------|-----|------------|-----|-------------|-----|------------|
| USB | Key | USB | Key | USB | Key | USB | Key |
| 00 | Кнопка нет | 20 | # 3 | 40 | F7 | 61 | 9 PgUp KP |
| 01 | | 21 | \$ 4 | 41 | F8 | 62 | 0 Ins KP |
| 02 | | 22 | % 5 | 42 | F9 | 63 | . Del KP |
| 03 | | 23 | ^ 6 | 43 | F10 | 64 | (INT 1) |
| 04 | A | 24 | & 7 | 44 | F11 | 65 | WinMenu |
| 05 | B | 25 | * 8 | 45 | F12 | 68 | F13 |
| 06 | C | 26 | (9 | 46 | PrtSc | 69 | F14 |
| 07 | D | 27 |) 0 | 47 | Scroll Lock | 6A | F15 |
| 08 | E | 28 | Enter | 48 | Pause/Bk | 6B | F16 |
| 09 | F | 29 | Esc | 49 | Ins CP | 6C | F17 |
| 0A | G | 2A | Back Space | 4A | Home CP | 6D | F18 |
| 0B | H | 2B | Tab | 4B | PgUp CP | 6E | F19 |
| 0C | I | 2C | Space | 4C | Del CP | 6F | F20 |
| 0D | J | 2D | - | 4D | End CP | 70 | F21 |
| 0E | K | 2E | + = | 4E | PgDn CP | 71 | F22 |
| 0F | L | 2F | { [| 4F | Right CP | 72 | F23 |
| 10 | M | 30 | }] | 50 | Left CP | 73 | F24 |
| 11 | N | 31 | \ | 51 | Down CP | 75 | Help |
| 12 | O | 32 | (INT 2) | 52 | Up CP | 7A | Undo |
| 13 | P | 33 | ::; | 53 | Num Lock | 7B | Cut |
| 14 | Q | 34 | " , | 54 | / KP | 7C | Copy |
| 15 | R | 35 | ~ ` | 55 | * KP | 7D | Paste |
| 16 | S | 36 | < , | 56 | - KP | 7F | Mute |
| 17 | T | 37 | > . | 57 | + KP | | |
| 18 | U | 38 | ? / | 58 | Enter KP | 80 | VolumeUp |
| 19 | V | 39 | Caps Lock | 59 | 1 End KP | 81 | VolumeDown |
| 1A | W | 3A | F1 | 5A | 2 Down KP | 87 | (INT 3) |
| 1B | X | 3B | F2 | 5B | 3 PgDn KP | 88 | katakana |
| 1C | Y | 3C | F3 | 5C | 4 Left KP | 89 | (INT 4) |
| 1D | Z | 3D | F4 | 5E | 6 Right KP | 8A | kanji |
| 1E | ! 1 | 3E | F5 | 5F | 7 Home KP | 8B | hiragana |
| 1F | @ 2 | 3F | F6 | 60 | 8 Up KP | 8C | furigana |

| | |
|-----|---------------|
| USB | Key |
| 97 | 5 KP |
| 9A | Attn / SysRq |
| 9C | Clear |
| A3 | CrSel |
| A4 | ExSel / SetUp |

| | |
|-----|---------|
| USB | Key |
| E0 | Ctrl L |
| E1 | Shif L |
| E2 | Alt L |
| E3 | Win L |
| E4 | Ctrl R |
| E5 | Shift R |
| E6 | Alt R |
| E7 | Win R |