



# **Send Data Tool**

## **Version 1.xx**

### **User's Manual**

# 1. Purpose

We promote the understanding the usage of ESC/POS command for users that use this tools and ESC/POS Command Reference with Epson product. This tool sends data to printer. Normally printer accepts binary data. But binary data is not user friendly. This tool intends to be familiar with controlling command of printer by describing the code (binary data, etc) in the script file.

## 2. Supported printer models

Single station printer models are supported. Refer to the information on the ESC/POS command reference page in the web site about the latest supported models.

## 3. Supported OS

Windows 8 (32/64bit)

Windows 7 SP1 (32/64bit)

Windows Vista SP2 (32bit)

Windows XP SP3 (32bit)

## 4. How to use

### 4-1. How to describe of script file

[Starting character]

Follow symbols at the beginning of line has special meaning.

' : Comment line

! : Output to display

. : Pause at this line

\* : Wait specified mili seconds example) \*1000

[DECIMAL VALUE]

You can specify decimal value as number.

1 2 10 100 255 ...

[HEXADECIMAL VALUE]

Hexadecimal number can be expressed with prefix or postfix characters.

1) \$ prefix      \$30 \$31 ...

2) h post fix    30h 31h ...

3) 0x prefix    0x30 0x32 0x33 ...

[CODE]

Most of code are defined as keyword.

	HEX	DEC
NUL	00h	0
SOH	01h	1
STX	02h	2
ETX	03h	3
EOT	04h	4
ENQ	05h	5
ACK	06h	6
BEL	07h	7
BS	08h	8
HT	09h	9
LF	0Ah	10
HOM	0Bh	11
CLR	0Ch	12
CR	0Dh	13
SO	0Eh	14
SI	0Fh	15
DLE	10h	16
DC1	11h	17
DC2	12h	18
DC3	13h	19
DC4	14h	20
NAK	15h	21
SYN	16h	22
ETB	17h	23
CAN	18h	24
EM	19h	25
SUB	1Ah	26
ESC	1Bh	27
FS	1Ch	28
GS	1Dh	29
RS	1Eh	30
US	1Fh	31
SP	20h	32

#### [CHARACTER]

Another character is treated as output character.

You need to describe “\” in the script file if you use one ‘\’ character as a parameter or character data.

#### [STRING]

Double quoted characters are treated as string.

#### [ESCAPE CHARACTERS]

Follow escape character can be used to express special character.

	HEX	DEC
\\	5Ch	92
\'	27h	39
\"	22h	34
\0	00h	0
\r	0Dh	13
\n	0Ah	10
\xXX	XXh	XX

## 4-2. How to send data

[How to send data described in the script file via USB interface]

If the printer is set as a USB vendor class:

senddat.exe <scriptfile> TMUSB

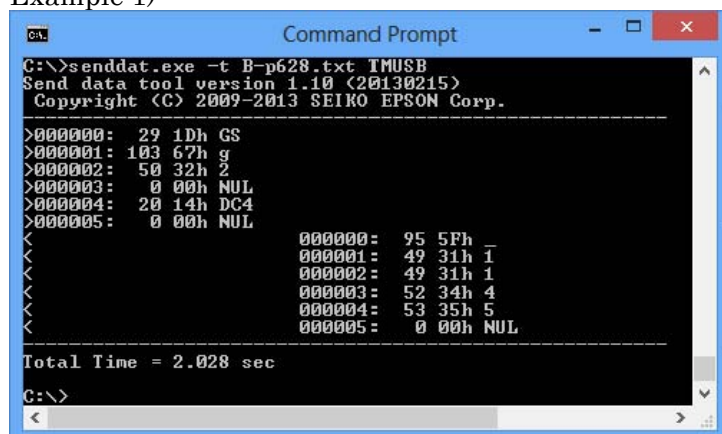
If the printer is set as a USB printer class:

senddat.exe <scriptfile> USBPRN

If you want to display the transferred data, put -t as a parameter:

senddat.exe -t <scriptfile> TMUSB

Example 1)



```
C:\>senddat.exe -t B-p628.txt TMUSB
Send data tool version 1.10 (20130215)
Copyright (C) 2009-2013 SEIKO EPSON Corp.

>000000: 29 1Dh GS
>000001: 103 67h g
>000002: 50 32h 2
>000003: 0 00h NUL
>000004: 20 14h DC4
>000005: 0 00h NUL
<
<
<
<
<
<
000000: 95 5Fh _
000001: 49 31h I
000002: 49 31h I
000003: 52 34h 4
000004: 53 35h 5
000005: 0 00h NUL
<
Total Time = 2.028 sec
C:\>
```

Data sent from the host to the printer.

Data replied from the printer.

Example 2)

```

C:\>senddat.exe -t sample.txt IMUSB
Send data tool version 1.10 (20130215)
Copyright (C) 2009-2013 SEIKO EPSON Corp.

-----
Display line is starting ! character
Pause line is starting . character
>000000: 48 30h 0
>000001: 49 31h 1
>000002: 50 32h 2
>000003: 51 33h 3
>000004: 13 0Dh CR
>000005: 10 0Ah LF
>000006: 48 30h 0
>000007: 49 31h 1
>000008: 50 32h 2
>000009: 13 0Dh CR
>00000A: 10 0Ah LF
>00000B: 51 33h 3
>00000C: 52 34h 4
>00000D: 53 35h 5
>00000E: 13 0Dh CR
>00000F: 10 0Ah LF
>000010: 54 36h 6
>000011: 55 37h 7
>000012: 56 38h 8
>000013: 13 0Dh CR
>000014: 10 0Ah LF
>000015: 115 73h s
>000016: 116 74h t
>000017: 114 72h r
>000018: 105 69h i
>000019: 110 6Eh n
>00001A: 103 67h g
>00001B: 49 31h 1
>00001C: 13 0Dh CR
>00001D: 10 0Ah LF
>00001E: 115 73h s
>00001F: 116 74h t
>000020: 114 72h r
>000021: 105 69h i
>000022: 110 6Eh n
>000023: 103 67h g
>000024: 50 32h 2
>000025: 13 0Dh CR
>000026: 10 0Ah LF
>000027: 34 22h "
>000028: 13 0Dh CR
>000029: 10 0Ah LF
>00002A: 39 27h '
>00002B: 13 0Dh CR
>00002C: 10 0Ah LF
>00002D: 92 5Ch \
>00002E: 13 0Dh CR
>00002F: 10 0Ah LF
>000030: 0 00h NUL
>000031: 13 0Dh CR
>000032: 10 0Ah LF

-----
Total Time = 7.457 sec
C:\>
```

The result of printing by above executing is below.

```

0123
012
345
678
String1
String2
"
'
```

[How to send data described in the script file via serial interface]

```

senddat.exe <serial-options> <scriptfile> COMx [x=1, 2,...]
```

[How to send data described in the script file via Ethernet interface]

```

senddat.exe <scriptfile> IPAddress
```

[How to send data described in the script file via parallel interface]

```

senddat.exe <scriptfile> LPTx [x=1, 2,...]
```

### 4-3. About the displayed character on in sending or receiving

Some characters written in the script file are displayed on the screen as shown below.

The written character in the script file	The displayed character on the screen
\\	\
\”	”
\’	‘
\x■■■	■■■h (Hexadecimal number)

### 4-4. About the option function

You can confirm the usage of parameter as a option when executing senddat.exe on the command prompt.

- t :This displays the data sent from host and the data received from printer on the screen.
- o :This send the binary file.
- wN :This terminates the application after specified N seconds from completing sending the data.

Example) senddat.exe -w2 sample.txt 192.168.192.168

### 4-5. About the error message

❑ In the case that the syntax is not described correctly in the script file, the application error or runtime error will occur. When that error occurs, check whether the syntax is described correctly or not. After that, execute the script file.

❑ In case that the EPSON software is installed that uses PCS (Port Communication Service) module, communication port is occupied by that service, and this tool is unable to communicate with the device. Then execute the below method, after that try to execute this tool.

- Stop the spooler. (Execute “net stop spooler” on the command prompt.)
- Stop the spooler. (Execute “net stop EpsonPuras” on the command prompt.)
- Next, stop the PCS. (Execute “net stop epson\_port\_communication\_service” on the command prompt.)

Also, after using this tool with above operation, return to the previous condition with below method.

- Start the PCS. (Execute “net start epson\_port\_communication\_service” on the command prompt.)
- Next, start the spooler. (Execute “net start EpsonPuras” on the command prompt.)
- Start the PCS. (Execute “net start spooler” on the command prompt.)

## 5. Restriction

❑ If you are sending data with the USB printer class, set the receive buffer size of printer to 4Kbyte (default). If setting it 45Byte, it may be not printed normally.

❑ You cannot control a system connected by several interfaces with one script, because this tool can have only one target for sending data. Example: In the case below in which the printer is connected by USB and

customer display is connected by RS-232C, you can not execute the script described to control the printer and display simultaneously.)

