Tipcode TP380 Scanner
User Manual



Version 1.1

Contents

Introduction 4
Interface Configuration 4
USB Interface Type Settings 5
RS232 Interface Settings 7
Keyboard Parameters 10
Keyboard Country / Language 10
Keyboard Modifier Keys 14
Character Conversion 15
Input / Output Settings 17
Good-Read Beep Volume 18
Good-Read Beep Frequency 19
Good-Read Beep Duration 20
LED Indicator 20
Power-Save Mode 21
Re-read Delay After Good Read 21
Decode Trigger Mode 22
Manual Trigger Mode 22
Serial Command Trigger Mode 23
Auto-Detect Mode 23
Continuous Scan Mode 24
Mobile Screen Mode 24
Mode Switch Timeout 25
Decode Attempt Timeout 25
Duplicate Barcode Re-read Delay 26
Illumination Settings 27
Aiming Light Settings 28
Barcode Reading Mode 29
Inverse Barcode Settings 29
Prefix / Suffix 30
Prefix Settings 32
Suffix Settings 33
Transmission Delay 34
Inter-Character Delay 34
Inter-Barcode Delay 34
Symbology Enable / Disable 35
CODABAR 35
CODE 39 36
INTERVELAVED 2 0F 5 38
NEC 2 OF 5 39
CODE 93 40
STRAIGHT 2 OF 5 41
CODE 11 43
CODE128 44
GS1-128 45

TELEPEN 46
UPC-A 46
UPC-E0 48
EAN/JAN-13 51
MSI 54
GS1 DATABAR 56
TRIOPTIC CODE 57
CODEBLOCK A 57
CODEBLOCK F 58
PDF417 59
MICRO PDF417 60
GS1 COMPOSITE 60
TCIF LINKED CODE 39(TLC39) 62
QR CODE 62
MAXICODE 63
DATA MATIX CODE 64
AZTEC CODE 65
HAN XIN CODE 65
POSTAL CODE 66
China Post(Hong Kong 2 0f 5) 66
Korea Post 67
Appendix 68
Numeric Barcode Table 68
ASCII Table 70
Barcode Type Table 73

Introduction

The scan engine supports TTL232 and USB interfaces; see the hardware manual for pin definitions.

The engine has a MINI USB port that also supports firmware upgrades and configuration without an interface board. The factory default is USB Virtual COM; install the USB virtual COM driver (see the USB COM user guide).

Factory defaults cover interface type, symbology enable/disable, and prefix/suffix settings. Note: after scanning the "Factory Defaults" barcode, reconfigure the interface type if USB Keyboard or RS232 is required (see "Interface Configuration").



Factory Defaults

Interface Configuration

To use RS232, scan the "RS232 Interface" barcode. Serial settings:

115200 baud, 8 data bits, no parity, 1 stop bit. To change these, see the serial parameter section.



RS232 Interface Default Settings

USB Interface Type Settings

Over USB, the engine can enumerate as Virtual Keyboard, HID POS, USB Virtual COM, or IBM SurePos. The default is USB Virtual COM. To select another type, proceed as follows:

For a Windows PC, scan "USB PC Keyboard" to set USB Keyboard mode. A CR/LF suffix is appended by default; to remove it, see the Prefix / Suffix section.



USB PC Keyboard

For an Apple computer, scan "USB APPLE Keyboard".



USB APPLE Keyboard

For an IBM POS terminal, scan "USB IBM Hand-held Type"; the

engine is recognized as a hand-held device. Note: restart the POS terminal after configuration.



USB IBM Hand-held Type

To identify the engine as an IBM table-top scanner, scan "USB IBM Table-top Type".



USB IBM Table-top Type

To use HID POS mode, scan "USB HID POS".



USB HID POS

When the host software requires a serial port, USB can enumerate as USB COM (driver installation required; see the USB COM documentation and package). USB COM supports the same functions and parameters as RS232, e.g. baud rate and data format.



USB COM

When connecting to third-party terminals (Verifone, Datalogic,

Gilbarco, NCR, etc.), the engine's interface parameters must match the host. Example - Wincor Nixdorf:

The Wincor Nixdorf Terminal uses 9600 baud, 8 data bits, no parity, 1 stop bit. Scan "Wincor Nixdorf Terminal Configuration" to apply these parameters.



Wincor Nixdorf Terminal Configuration

For other terminal brands, contact your integrator.

RS232 Interface Settings

For TTL/RS232 communication, the engine and host must use identical parameters: baud rate, parity, flow control, etc. Default baud rate: 115200.



300bps



600bps



1200bps



2400bps



4800bps



9600bps



19200bps



38400bps



57600bps



***115200bps**

RS232 frame format covers data bits, stop bits and parity. Default: 8 data bits, 1 stop bit, no parity.

tipcode 顶码
专业扫码,优选顶码!



7 data bits, 1 stop bit, no parity



7 data bits, 2 stop bits, no parity



***8 data bits, 1 stop bit, no parity**



7 data bits, 1 stop bit, even parity



7 data bits, 2 stop bits, even parity



8 data bits, 1 stop bit, even parity



7 data bits, 1 stop bit, odd parity



7 data bits, 2 stop bits, odd parity



8 data bits, 1 stop bit, odd parity

Keyboard Parameters

Keyboard Country / Language

When the engine acts as a keyboard, character output differs by country; select the matching keyboard layout. Default: US English.



Keyboard Default Settings



***US English**



Belgium



Finland



France



Germany



Italy



Switzerland (German)



United Kingdom



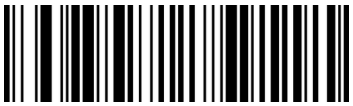
Denmark



Norway



Spain



Netherlands



tipcode 顶码
专业扫码,优选顶码!

Hebrew



Portugal



Latin America



Czech Republic



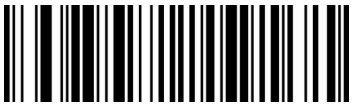
Brazil



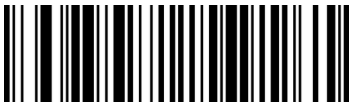
Greece



Canada (French)

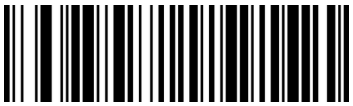


Hungary



Poland

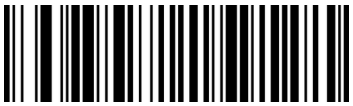
tipcode 顶码
专业扫码,优选顶码!



Turkish Q



Russia



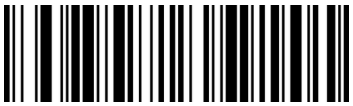
Japan ASCII



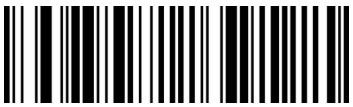
Albania



Canada (Multilingual)



Ireland



Ukraine



Uzbek (Cyrillic)



Kazakhstan



Kyrgyz (Cyrillic)



Belarus



Tatar



Mongolia (Cyrillic)

If the required country is not listed: 1) scan "Keyboard Country Configuration"; 2) scan the decimal digit barcodes in the appendix for the country code; 3) scan "Save".



Keyboard Country Configuration

Keyboard Modifier Keys

CAPS LOCK and SHIFT affect barcode character output. Use the keyboard modifier settings to change output case. In normal mode, CAPS

LOCK is off.



***Normal Mode (CAPS LOCK Off)**



CAPS LOCK On



Shift Lock Off



Auto-Detect Keyboard CAPS LOCK State

On German, French and similar keyboards, CAPS LOCK is implemented via NumLock.



Autocaps via NumLock

Character Conversion

Character case conversion: barcodes containing letters can be output in all upper or all lower case. Example - barcode "ab123dE": scan

"Convert to Upper Case" to output "AB123DE", or "Convert to Lower Case" to output "abc123de". Default: no conversion.



***No Case Conversion**



All Upper Case



All Lower Case

Emulated control-character input: e.g. to display Enter as [CR] instead of ASCII 0D, refer to the ASCII conversion table. Codes 00-1F are convertible. Default: disabled.



***Emulated Control Characters Off**



Emulated Control Characters On

Input / Output Settings

Power-on beep: the buzzer sounds after a successful power-on. It can be disabled where silence is required. Default: enabled.



***Power-On Beep Enabled**



Power-On Beep Disabled

On receiving a BEL character, the engine beeps once. The host can send BEL to trigger an audible alert, e.g. when received data fails application rules. Default: disabled.



BEL Beep



***No BEL Beep**

The engine can beep when the decode trigger is pressed, regardless of a successful read.



Beep on Trigger Press



***No Beep on Trigger Press**

After a successful read, the buzzer sounds. This can be disabled if not required.



No Good-Read Beep



Good-Read Beep

Good-Read Beep Volume



Mute



Low Volume



Medium Volume



*High Volume

Good-Read Beep Frequency



Low Frequency



*Medium Frequency



High Frequency

Good-Read Beep Duration



***50 ms Beep**



20 ms Short Beep

LED Indicator

The LED flashes to indicate a successful read.



***LED Flash on Good Read**



No LED on Good Read (setting has no effect)

The buzzer and LED can repeat the good-read indication multiple times (default: once). Contact your supplier for multiple indications.

Power-Save Mode

Power-save timeout: the engine enters power-save after a period of inactivity. Set the timeout to 0 ms to disable it. Default: 120000 ms; user-configurable.

1. 1. Scan "Timeout Setting"; 2. scan the decimal digit barcodes in the appendix; 3. scan "Save".



Timeout Setting

Re-read Delay After Good Read

The interval between reading one barcode and the next is configurable. Default: 0 (no delay).



***No Delay**



500 ms Delay



1000 ms Delay



1500 ms Delay

To set a custom delay (ms): 1) scan "Delay Configuration"; 2) scan the decimal digit barcodes for 0-30000 ms; 3) scan "Save".



Delay Configuration

Decode Trigger Mode

Manual Trigger Mode

Pressing the trigger starts image capture and decoding; decoding stops on timeout.



***Manual Trigger - Normal Mode**

Serial Command Trigger Mode

A serial command triggers decoding; the engine keeps capturing and decoding until a stop command or the preset timeout.

Auto-Detect Mode

In auto-detect mode, low-level illumination detects a barcode entering the field; full illumination then turns on to read it.



Auto Scan Mode

In auto-detect mode, the illumination LED can turn off immediately after a successful read as an indicator, or stay on to detect the next barcode.



***Illumination LED Always On**



Illumination LED Off

In auto-detect mode, ambient light affects detection sensitivity. The engine adjusts it via a sensitivity value 0-20 (0 = highest, 20 = lowest). Default: 1.



Sensitivity Setting

Continuous Scan Mode

In continuous scan mode, the engine reads continuously.



Continuous Auto Scan - Normal Mode

Mobile Screen Mode

LF18XX reads paper, phone screens and monitor screens adaptively. For screen-heavy applications, enable Mobile Screen Mode; note that paper reading performance degrades under poor ambient light in this

mode.



Mobile Screen - Hand-held Mode



Mobile Screen - Auto Mode

Mode Switch Timeout

In auto-detect mode, pressing the trigger temporarily switches to manual trigger mode. The dwell time is configurable (default 5000 ms, range 0-300000 ms); the engine reverts to auto-detect on timeout. Steps: 1) scan "Mode Switch Timeout"; 2) scan decimal digit barcodes; 3) scan "Save".



Mode Switch Timeout

Decode Attempt Timeout

In manual trigger and serial command modes, the engine keeps attempting to decode until success or timeout (default 30,000 ms).

Steps: 1) scan "Read Timeout"; 2) scan decimal digit barcodes; 3) scan "Save".



Read Timeout

Duplicate Barcode Re-read Delay

Duplicate barcode re-read delay. A long delay reduces throughput. Applies in auto-read mode (also supported in manual mode). Default: 750 ms.



500ms



750ms



1000ms



2000ms

To set a custom re-read delay: 1. Scan "Re-read Delay Configuration "; 2. scan decimal digit barcodes (0-30000 ms); 3. scan "Save".



Re-read Delay Configuration

Illumination Settings

Illumination is needed under poor ambient light and may be turned off under good ambient light. Default: on.



***Illumination On**



Illumination Off

Aiming Light Settings

During scanning, the aiming light and illumination alternate: the aiming light is off while illumination is on, and vice versa. Default: alternating mode.



Aiming Light Off



***Aiming Light On**

With multiple barcodes in the field, an aiming delay helps target a specific code: after the trigger is held, the aiming light stays on for a set time before illumination turns on for decoding. Default: off.



200ms



400ms



*Off

Barcode Reading Mode

If several barcodes are in the field, pressing the trigger decodes and outputs all of them. Default: off.



On



*Off

Inverse Barcode Settings

An inverse barcode has black and white reversed; enable inverse decoding to read it. Reading both normal and inverse barcodes slows decoding on poorly printed codes.



Read Inverse Barcodes Only



Auto: Normal and Inverse Barcodes



***Read Normal Barcodes Only**

Prefix / Suffix

A string added before barcode data is a prefix; one added after is a suffix. Prefixes/suffixes can apply to a specific symbology or to all barcodes. Default: none.

For a specific symbology, specify its CODE ID / AIM ID; use 99 for all barcodes. Prefix/suffix length must not exceed 100 characters. See the appendix for CODE IDs.

To add a prefix / suffix:

1. 1. Scan "Add Prefix" or "Add Suffix";
2. 2. Look up the CODE ID hex value in the appendix (e.g. EAN-8 = 44;

all barcodes = 99) and scan the corresponding numeric barcodes;

3. 3. Scan the hex values of the desired characters (e.g. Enter = 0D) from the numeric barcodes;
4. 4. Repeat step 3 for additional characters;
5. 5. Scan "Save" or "Discard" to exit setup.

Example: add Enter as prefix / suffix for all barcodes

1. 1. Scan "Add Prefix" or "Add Suffix";
2. 2. For all barcodes the two hex digits are 99; scan the "9" and "9" numeric barcodes;
3. 3. Enter has ASCII value 0D; scan the "0" and "D" numeric barcodes;
4. 4. Scan "Save".

Clear One or All Prefixes / Suffixes

One or more prefixes / suffixes can be cleared individually.

1. 1. Scan "Clear Single Prefix" or "Clear Single Suffix";
2. 2. Look up the CODE ID hex value in the appendix (e.g. EAN-8 = 44; all barcodes = 99) and scan the corresponding numeric barcodes;
3. 3. Scan "Save".

Adds an Enter suffix to all barcodes. This clears all previous suffixes and adds a single Enter.



Add Enter Suffix to All Barcodes



Add CR+LF Suffix to All Barcodes



Add TAB Suffix to All Barcodes

Prefix Settings

Default prefix: none.



Prefix Default



Add Prefix



Clear One Prefix



Clear All Prefixes

Suffix Settings

Default suffix: none.



Suffix Default



Add Suffix



Clear One Suffix



Clear All Suffixes

Transmission Delay

Inter-Character Delay

Some terminals cannot accept fast transmission; add an inter-character delay for stable transfer. Steps: 1) scan "Inter-Character Delay"; 2) scan the decimal digit barcodes; 3) scan "Save".



Inter-Character Delay

To remove the inter-character delay: 1) scan "Inter-Character Delay"; 2) scan the "0" numeric barcode; 3) scan "Save".

Inter-Barcode Delay

Inter-barcode delay (max. 5000 ms) sets the interval between transmissions when reading multiple barcodes. Steps: 1) scan "Inter-Barcode Delay"; 2) scan the decimal digit barcodes; 3) scan "Save".



Inter-Barcode Delay

To remove the inter-barcode delay: 1) scan "Inter-Barcode Delay"; 2) scan the "0" numeric barcode; 3) scan "Save".

Symbology Enable / Disable



Enable All Symbologies (except Postal Codes)



Disable All Symbologies

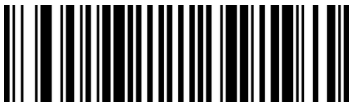
CODABAR



Default Configuration



***Enable**



Disable



Transmit Start / Stop Characters



Do Not Transmit Start / Stop Characters



Max. Length (Default 60)



Min. Length (Default 4)

CODE 39



Default Configuration



*Enable



Disable



Transmit Start / Stop Characters



*Do Not Transmit Start / Stop Characters



*No Check Character Processing



Check but Do Not Transmit



Check and Transmit



Max. Length (Default 48)



Min. Length (Default 0)



Enable Full ASCII



***Disable Full ASCII**

For multiple CODE 39 barcodes, if the first starts with a space character, subsequent codes are buffered and transmitted to the host together.



Enable Multi-Code Concatenation



***Disable Multi-Code Concatenation**

INTERVELAVED 2 0F 5



Default Configuration



***Enable**



Disable



***No Check**



Check without Transmitting Check Digit



Check and Transmit Check Digit



Max. Length (Default 80)



Min. Length (Default 4)

NEC 2 OF 5



Default Configuration



***Enable**



Disable



***No Check**



Check without Transmitting Check Digit



Check and Transmit Check Digit



Max. Length (Default 80)



Min. Length (Default 4)

CODE 93



Default Configuration



*Enable



Disable



Max. Length (Default 80)



Min. Length (Default 4)

STRAIGHT 2 OF 5

STRAIGHT 2 OF 5 INDUSTRIAL



Default Configuration



Enable



*Disable



Max. Length (Default 80)



Min. Length (Default 0)

STRAIGHT 2 OF 5 IATA



Default Configuration



Enable



***Disable**



Max. Length (Default 48)



Min. Length (Default 4)

MATRIX 2 0F 5



Default Configuration



Enable



***Disable**



Max. Length (Default 80)



Min. Length (Default 4)

CODE 11



Default Configuration



Enable



***Disable**



1-Digit Check Not Configurable



2-Digit Check Not Configurable



Max. Length (Default 80)



Min. Length (Default 4)

CODE128



Default Configuration



***Enable**



Disable



Enable ISBT



*Disable ISBT



Max. Length (Default 48)



Min. Length (Default 1)

GS1-128



Default Configuration



*Enable



Disable



Max. Length (Default 80)



Min. Length (Default 1)

TELEPEN



Default Configuration



Enable



***Disable**



Max. Length (Default 60)



Min. Length (Default 1)

UPC-A



Default Configuration



*Enable



Disable



*Transmit Check Character



Do Not Transmit Check Character



*Transmit Number System Character



Do Not Transmit Number System Character



Enable 2-Digit Add-On



*Disable 2-Digit Add-On



Enable 5-Digit Add-On



*Disable 5-Digit Add-On



Add-On Required



*Add-On Not Required



*Space Between Barcode and Add-On



No Space Between Barcode and Add-On

UPC-E0



Default Configuration



*Enable



Disable (Not Supported)



Enable 12-Digit UPC-A Extension



***Disable 12-Digit UPC-A Extension**



Add-On Required



Add-On Not Required



***Space Between Barcode and Add-On**



Space Between Barcode and Add-On



***Transmit Check Character**



Do Not Transmit Check Character



***Transmit Number System Character**



Do Not Transmit Number System Character



Enable 2-Digit Add-On



***Disable 2-Digit Add-On**



Enable 5-Digit Add-On



***Disable 5-Digit Add-On**



Enable UPC-E1



***Disable UPC-E1**

EAN/JAN-13



Default Configuration



*Enable



Disable



*Transmit Check Character



Do Not Transmit Check Character



Enable 2-Digit Add-On



*Disable 2-Digit Add-On



Enable 5-Digit Add-On



*Disable 5-Digit Add-On



Add-On Required



*Add-On Not Required



*Space Between Barcode and Add-On



No Space Between Barcode and Add-On



Transmit ISBN Symbol



*Do Not Transmit ISBN Symbol

EAN/JAN-8



Default Configuration



*Enable



Disable



*Transmit Check Character



Do Not Transmit Check Character



Enable 2-Digit Add-On



*Disable 2-Digit Add-On



Enable 5-Digit Add-On



*Disable 5-Digit Add-On



Add-On Required



***Add-On Not Required**

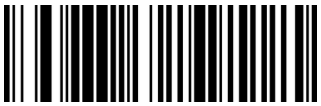


***Space Between Barcode and Add-On**



No Space Between Barcode and Add-On

MSI



Default Configuration



Enable



***Disable**



***1-Digit Mod 10 Check, Not Transmitted**



1-Digit Mod 10 Check, Transmitted



2-Digit Mod 10/10 Check, Not Transmitted



2-Digit Mod 10/10 Check, Transmitted



2-Digit Mod 10/11 Check, Not Transmitted



2-Digit Mod 10/11 Check, Transmitted



No Check Character



Max. Length (Default 48)



Min. Length (Default 4)

GS1 DATABAR

GS1 DATABAR OMNIDIRECTIONAL



Default Configuration



***Enable**



Disable

GS1 DATABAR limited



Default Configuration



***Enable**



Disable

GS1 DATABAR EXPANDED



Default Configuration



***Enable**



Disable



Max. Length (Default 74)



Min. Length (Default 4)

TRIOPTIC CODE

CODE 32 and TRIOPTIC are mutually exclusive; enable only one.



Enable



***Disable**

CODEBLOCK A



Default Configuration



Enable



***Disable**



Max. Length (Default 600)



Min. Length (Default 1)

CODEBLOCK F



Default Configuration



Enable



***Disable**



Max. Length (Default 2048)



Min. Length (Default 1)

PDF417



Default Configuration



*Enable



Disable



Max. Length (Default 2710)



Min. Length (Default 1)

MICRO PDF417



Default Configuration



Enable



***Disable**



Max. Length (Default 366)



Min. Length (Default 1)

GS1 COMPOSITE

GS1 COMPOSITE CODES



Default Configuration



Enable



***Disable**



Enable GS1 to UPC/EAN Conversion



***Disable GS1 to UPC/EAN Conversion**



Max. Length (Default 2435)



Min. Length (Default 1)

GS1 EMULATION
Default Emulation Off (Not Supported)



GS1 EMULATION OFF*(9160070.)



GS1-128 Emulation (9160071) - Not Supported



GS1-DataBar Emulation (9160072) - Not Supported



GS1 Code Expansion Off (9160073) - Not Supported



EAN-8 to EAN-13 Conversion (9160074) - Not Supported

TCIF LINKED CODE 39(TLC39)



ON(9270011.)



OFF(9270010.)

QR CODE



Default Configuration



*Enable



Disable



Max. Length (Default 7089)



Min. Length (Default 1)

MAXICODE



Default Configuration



Enable



*Disable



Max. Length (Default 150)

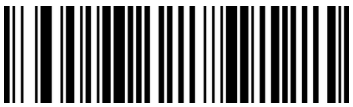


Min. Length (Default 1)

DATA MATIX CODE



Default Configuration



***Enable**



Disable



Max. Length (Default 3116)



Min. Length (Default 1)

AZTEC CODE



Default Configuration



***Enable**



Disable



Max. Length (Default 3832)



Min. Length (Default 1)

HAN XIN CODE



Default Configuration



Enable



*Disable



Max. Length (Default 7833)



Min. Length (Default 1)

POSTAL CODE

Contact your integrator for 2D postal code details.

China Post(Hong Kong 2 0f 5)



Default Configuration



Enable



*Disable



Max. Length (Default 80)



Min. Length (Default 2)

Korea Post



Default Configuration



Enable



***Disable**



Max. Length (Default 48)



Max. Length (Default 2)



Transmit Check Character

tipcode 顶码
专业扫码,优选顶码!



*Do Not Transmit Check Character

Appendix

Numeric Barcode Table



0



1



1



3



4



5



6



7



8



9



A



B



C



D



E



F



Save



Discard

tipcode 顶码
专业扫码,优选顶码!

ASCII Table

Decimal	Hex	Character
0	0	NULL
1	1	START OF HEADING (SOH)
2	2	START OF TEXT (STX)
3	3	END OF TEXT (ETX)
4	4	END OF TRANSMISSION (EOT)
5	5	END OF QUERY (ENQ)
6	6	ACKNOWLEDGE (ACK)
7	7	BEEP (BEL)
8	8	BACKSPACE (BS)
9	9	HORIZONTAL TAB (HT)
10	A	LINE FEED (LF)
11	B	VERTICAL TAB (VT)
12	C	FF (FORM FEED)
13	D	CR (CARRIAGE RETURN)
14	E	SO (SHIFT OUT)
15	F	SI (SHIFT IN)
16	10	DATA LINK ESCAPE (DLE)
17	11	DEVICE CONTROL 1 (DC1)
18	12	DEVICE CONTROL 2 (DC2)
19	13	DEVICE CONTROL 3 (DC3)
20	14	DEVICE CONTROL 4 (DC4)
21	15	NEGATIVE ACKNOWLEDGE-MENT (NAK)
22	16	SYNCHRONIZE (SYN)
23	17	END OF TRANSMISSION BLOCK (ETB)
24	18	CANCEL (CAN)
25	19	END OF MEDIUM (EM)
26	1A	SUBSTITUTE (SUB)
27	1B	ESCAPE (ESC)
28	1C	FILE SEPARATOR (FS) RIGHT ARROW
29	1D	GROUP SEPARATOR (GS) LEFT ARROW
30	1E	RECORD SEPARATOR (RS) UP ARROW
31	1F	UNIT SEPARATOR (US) DOWN ARROW
32	20	<SPACE>
33	21	!
34	22	"

tipcode 顶码
专业扫码,优选顶码!

35	23	#
36	24	$
37	25	%
38	26	&
39	27	'
40	28	(
41	29	)
42	2A	*
43	2B	+
44	2C	,
45	2D	-
46	2E	.
47	2F	/
48	30	0
49	31	1
50	32	2
51	33	3
52	34	4
53	35	5
54	36	6
55	37	7
56	38	8
57	39	9
58	3A	:
59	3B	;
60	3C	<
61	3D	=
62	3E	>
63	3F	?
64	40	@
65	41	A
66	42	B
67	43	C
68	44	D
69	45	E
70	46	F
71	47	G
72	48	H
73	49	I
74	4A	J
75	4B	K
76	4C	L

tipcode 顶码
专业扫码,优选顶码!

77	4D	M
78	4E	N
79	4F	O
80	50	P
81	51	Q
82	52	R
83	53	S
84	54	T
85	55	U
86	56	V
87	57	W
88	58	X
89	59	Y
90	5A	Z
91	5B	[
92	5C	\
93	5D	]
94	5E	^
95	5F	_
96	60	`
97	61	a
98	62	b
99	63	c
100	64	d
101	65	e
102	66	f
103	67	g
104	68	h
105	69	i
106	6A	j
107	6B	k
108	6C	l
109	6D	m
110	6E	n
111	6F	o
112	70	p
113	71	q
114	72	r
115	73	s
116	74	t
117	75	u
118	76	v

tipcode 顶码
专业扫码,优选顶码!

119	77	w
120	78	x
121	79	y
122	7A	z
123	7B	{
124	7C	|
125	7D	}
126	7E	~
127	7F	<DEL>
128		

Barcode Type Table

Barcode Type	AIM ID	Possible AIM ID Modifiers	CODE ID	CODE ID (Hex)
All Barcodes				99
Code128	]Cm	0,1,2,4	j	6A
GS1-128	]C1			49
EAN-13	]E0		d	64
EAN-13 with Add-On	]E3		d	64
EAN-13 with Extended Coupon Code	]E3		d	64
EAN-8	]E4		D	44
EAN-8 with Add-On	]E3		D	44
Matrix 2 of 5	]X0		m	6D
Code49	]Tm	0,1,2,4	I	6C
Code 32	]X0			<3C
Code 39	]Am	0,1,3,4,5,7	b	62
Britsh Post	]X0		B	42
Canadian Post	]X0		C	43
China Post	]X0		Q	51
Han Xin	]X0		H	48
Codebar	]Fm	0-1	a	61
Codablock A	]O6	0,1,4,5,6	V	56

tipcode 顶码
专业扫码,优选顶码!

Codablock F	]Om	0,1,4,5,6	q	71
Code 11	]H3		h	68
Code 93 and 93i	]Gm	0-9,A-Z,a-m	i	69
Data Matrix	]dm	0-6	w	77
Australian Post	]X0		A	41
Aztec Code	]zm	0-9,A-C	z	7A
GS1 Composite	]em	0-3	y	79
GS1 DataBar	]em	0	y	79
InfoMail	]X0		,	2c
Intelligent Mail Barcode	]X0		M	4D
Interleaved 2 of 5	]Im	0,1,3	e	65
Japanese Post	]X0			4A
KIX (Netherlands) Post	]X0		K	4B
Korea Post	]X0		?	3F
MaxiCode	]Um	0-3	x	7 8
MicroPDF417	]Lm	3-5	R	52
MSI	]Mm	0	g	67
NEC 2 of 5	]X0		Y	59
OCR MICR (E 13 B)	]o3		O	4F
OCR SEMI Font	]o3		O	4F
OCR-A	]o1		O	4F
OCR-B	]o2		O	4F
PDF417	]Lm	0-2	r	72
Planet Code	]X0		L	4C
Postal-4i	]X0		N	4E
Postnet	]X0		P	50
QR Code and Micro QR Code	]Qm	0-6	s	73
Straight 2 of 5 IATA	]Rm	0,1,3	f	66
Straight 2 of 5 Industrial	]S0		f	66
TCIF Linked Code 39 (TLC39)	]L2		T	54
Telepen	]Bm		t	54
UPC-A	]E0		c	63
UPC-A with Add-On	]E3		c	63
UPC-A with Extended Coupon Code	]E3		c	63

tipcode 顶码
专业扫码,优选顶码!

UPC-E	]E0		E	45
UPC-E with Add-On	]E3		E	45
UPC-E1	]X0		E	45