

POSX

POINT OF SALE SIMPLIFIED



ION BLUETOOTH

1D Wireless Linear Imager

User's Manual

v1.0

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Chapter 1 - Scanner Setup

About this manual

This User's Guide provides detailed programming instructions. Barcode scanners are factory programmed for the most common communication settings. If you need to change these settings, programming is accomplished by scanning the barcodes in this guide.

1.1 Setup Scanner PC

To use the scanner with a Windows PC, simply connect the base to your PC with the provided cable. The scanner is paired with the base by default. To re-pair the scanner with the base, or to pair the scanner with a different base, use the instructions below. After scanning each barcode wait until the scanner beeps before proceeding to the next step.

Unplug Cradle from Computer



Scan Disconnect Previous Pair



Scan Bluetooth SPP Mode



Scan Cradle Pairing Mode

Plug Cradle into Computer



Scan Pairing Mode

Wait until the **Blue** LED on the scanner and base turn solid

1.2 Setup Scanner with Mobile Device

To use the scanner with a mobile device (iOS, Android, or Bluetooth Windows device) use the instructions below.



Scan Disconnect Previous Pair



Scan HID Mode



Scan Pairing Mode

Open Bluetooth settings on your mobile device and tap on "Bluetooth Scanner" to pair with the scanner. The **Blue** LED on the back of the scanner will turn solid once it is successfully paired.

1.3 Configure iOS On-Screen Keyboard

When the scanner is connected to an iOS device, rapidly pulling the trigger twice will toggle the iOS on-screen keyboard. If this functionality is not needed use the barcode below to disable it.



Enable/Disable iOS Quick
Keyboard Shortcut

To toggle the iOS on screen keyboard a single time, use the barcode below.



Toggle iOS
On-Screen Keyboard

1.4 Memory Mode

The scanner can be configured to store all scanned barcodes in the scanners internal memory. While in memory mode the scanner will not transmit any barcodes until the "Transmit Stored Data" barcode is scanned. The scanner can hold a maximum of X barcodes in internal memory.

Scanning "Transmit Count of Stored Barcodes" will transmit the number of barcodes currently held in memory mode. "Clear All Stored Data" will erase all stored barcodes from the scanners memory and can not be un-done.



Enter Memory Mode



Transmit Stored Data



Exit Memory Mode



Transmit Count of Stored Barcodes



Clear All Stored Data

1.5 Sleep Settings

If the scanner has not been used for a set amount of time the scanner will automatically enter sleep mode. To take the scanner out of sleep mode simply press and hold the trigger for 1 second. To change the amount of time before the scanner enters sleep mode, scan one of the barcodes below.

WARNING: Longer sleep times may result in shorter battery life



20 Seconds



5 Minutes



30 Seconds



10 Minutes



1 Minute



20 Minutes



2 Minutes



Never

1.6 How to configure the scanner

- (1) Scan Start Configuration to enter programming mode
- (2) Scan all necessary barcodes for settings that meet your needs.
- (3) Scan End Configuration to exit programming mode.



Start Configuration



End Configuration



Default Settings



Check Version



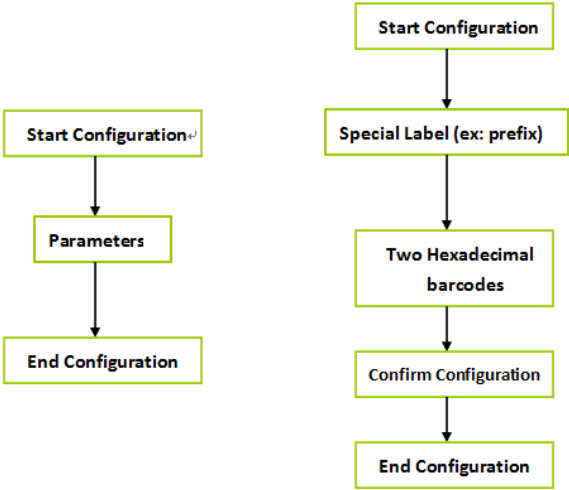
Power Off

An asterisk (*) next to an option indicates it is the default setting.

Most of time the scanner only requires one barcode when changing to new values. You will hear two beeps when you successfully change a setting. For some special settings, multiple barcodes are needed to complete the configuration. When using these special settings, you might need to read one or more barcodes, such as:

- ◆ Hexadecimal barcodes. For example: prefix, suffix, etc.
- ◆ Numeric barcodes. For example: inter-character delay, max/min length

To complete changing the setting you will need to scan the “Confirm” barcode after scanning from the hexadecimal table. Below is the flow chart for the two different types of configuration.



Chapter 2 - Scanner Configuration








Start Configuration



End Configuration

2.1 Terminator

ITEM	OPTION
	 None
	 *CR+LF
Output Characters	 CR
	 LF
	 Tab

2.2 Beeper Tone



Start Configuration



End Configuration

ITEM

OPTION

Beep Tone
(Default : 09H)



* Ref: Appendix (00-10H)

Beep Sound Duration
(Default : 05H)



* Ref: Appendix (00-10H)

Power On Beeper



* Enable



Disable

Beeper



* On



Off

2.3 Trigger Mode



Start Configuration



End Configuration

ITEM

OPTION



* Trigger On/Good Read Off



Trigger On/Off



Continuous/Trigger Off



Continuous/Testing

Reading Mode



Continuous/Trigger On



Continuous/Auto Power On



Flash



Flash/Auto Power On

2.4 String Options (Prefix & Suffix)

This section describes the alterations which can be made to the format of the transmitted data string. A prefix and suffix of 10 direct inputs may be included in front of and at the end of the scanned barcode.

Format

{Prefix} {Code ID} {Bar Code} {Suffix}

How to set up a prefix?

To configure “#” as a prefix

- (1) Scan "Start Configuration"
- (2) Scan "Preamble"
- (3) Scan "2" then "3" from the HEX table. (p. 61)
- (4) Scan "Confirm Configuration"
- (5) Scan "End Configuration"

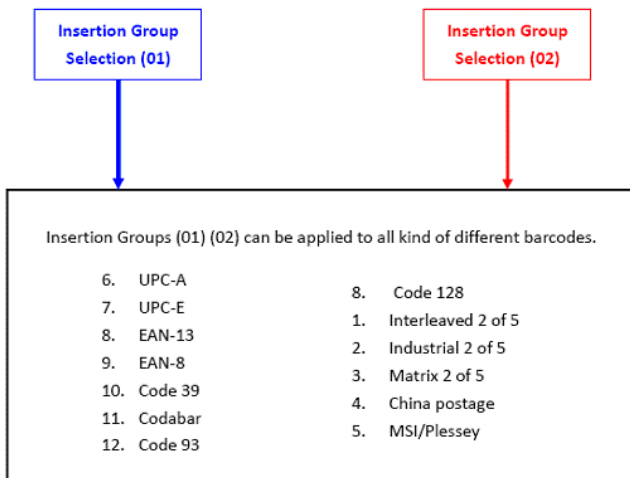
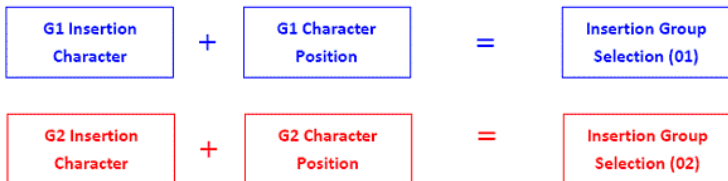
How to set up a suffix?

To configure “\$\$” as a suffix

- (1) "Start Configuration"
- (2) Scan "Postamble"
- (3) Scan "2" then "4" from the HEX table twice. (p. 61)
- (4) Scan "Confirm Configuration"
- (5) Scan "End Configuration"

2.5 Setup Insertion

This section describes how to setup insertion groups. Insertion groups allow you to insert characters into the output from scanned barcodes.



NOTE :

- ◆ Max. 10 characters can be inserted each time
- ◆ Max. Insertion groups is two.
- ◆ Insertion group (01) or (02) can be used in different kinds of barcodes at the same time

Example:



To make the above barcode output 12A3456789,
insert an "A" character before the third digit (3).

How to set the character you want to insert

- (1) Scan "Start Configuration" barcode
- (2) Scan "G1 Insertion character"
- (3) Scan "4" and "1" from HEX Table (p.61)
- (4) Scan "Confirm Configuration" barcode
- (5) Scan "End Configuration" barcode

How to set the position you wish to place the character

- (6) Scan "Start Configuration" barcode
- (7) Scan "G1 Character Position"
- (8) Scan "0" and "3" from HEX Table (p.61)
(which sets the position)
- (9) Scan "Confirm Configuration" barcode
- (10) Scan "End Configuration" barcode

How to set the insertion for Code 39

Go to page 27 (Code 39)

- (11) Scan "Start Configuration" barcode
- (12) Scan "Insert Group Selection" barcode
- (13) scan "0" and "1" from the HEX Table (p.61)
(which represents the group, 01, that was just created)
- (14) Scan "Confirm Configuration" barcode
- (15) Scan "End Configuration" barcode









Start Configuration



End Configuration



Confirm Configuration

ITEM	OPTION
Preamble (Default : 00)	 Ref: Appendix
Postamble (Default : 00)	 Ref: Appendix
G1 Insertion Character (Default : 00)	 Ref: Appendix
G2 Insertion Character (Default : 00)	 Ref: Appendix
G1 Character Position to be Inserted (Default : 00)	 Ref: Appendix
G2 Character Position to be Inserted (Default : 00)	 Ref: Appendix



Start Configuration



End Configuration

ITEM

OPTION

Barcode ID



*Disable



Enable

Accuracy



* Read 1 Time



Read 2 Times

Positive and Negative Barcodes



Negative bar codes



*Positive bar codes

Code Type	ID	Code Type	ID
UPC-A	F	Interleaved 25	N
UPC-E	G	Industrial 25	O
EAN-13	H	Matrix 25	P
EAN-8	I	China Postal Code	Q
Code 39	J	MSI/Plessey	R
Codabar	K	Code 32	S
Code 93	L	Code 11	T
Code 128	M	Telepen	V

Chapter 3 - Barcode Settings

How to set up a Code ID?

- (1) Scan Start Configuration bar code
- (2) Go to the ASCII Table and scan label that represent the desired characters to be inserted.
- (3) Scan Confirm Configuration bar code
- (4) Scan End Configuration bar code.



Start Configuration






End Configuration



Confirm Configuration

3.1 UPC-A

ITEM	OPTION
Read	
	Disable
Code ID Setting (Default : F)	
	* Enable
Code ID Setting (Default : F)	
	Ref: Appendix (20-7EH)



Start Configuration



End Configuration






ITEM	OPTION
UPC-A Expand to EAN-13	
	* Disable
	Enable
Check Digit Send	
	Disable
	* Enable
Truncate Leading Zero	
	* Disable
	Enable
Truncate Leading (Default:00)	
	Ref: Appendix (00-0DH)
Truncate Ending (Default:00)	
	Ref: Appendix (00-0DH)
Insert Group Selection	
	Ref: Appendix (00—02H)



Start Configuration



End Configuration

ITEM	OPTION
	 * NONE
	 2 digits
Supplement Digits	 5 digits
	 2 or 5 digits
	 Auto-discriminate Supplement

3.2 UPC-E



Start Configuration



End Configuration

ITEM	OPTION
Read	
	Disable
Code ID Setting (Default : G)	
	* Enable
Code ID Setting (Default : G)	
	Ref: Appendix (20-7EH)



Start Configuration



End Configuration

ITEM	OPTION
UPC-E Expand to UPC-A	
	* Disable
	Enable
Check Digit Send	
	Disable
	* Enable
Truncate Leading (Default:00)	
	Ref: Appendix (00-08H)
Truncate Ending (Default:00)	
	Ref: Appendix (00-08H)
Insert Group Selection (Default:00)	
	Ref: Appendix (00-02H)



Start Configuration



End Configuration

ITEM	OPTION
Truncate Leading Zero	
	*Disable
	Enable
Supplement Digits	
	* None
	2 digits
5 digits	
2 or 5 digits	
Auto-discriminate Supplement	








3.3 EAN-13



Start Configuration



End Configuration

ITEM	OPTION
Read	 Disable
	 * Enable
Code ID Setting (Default : H)	 Ref: Appendix (20-7EH)
Check Digit Send	 Disable
	 * Enable
Truncate Leading (Default : 00)	 Ref: Appendix (00-0DH)
Truncate Ending (Default : 00)	 Ref: Appendix (00-0DH)



Start Configuration



End Configuration

ITEM

OPTION



* None



2 digits

Supplement Digits



5 digits



2 or 5 digits



Auto-discriminate Supplement



* Disable

ISBN/ISSN Conversion



Enable

Insert Group Selection
(Default : 00)



Ref: Appendix (00-02H)

3.4 EAN-8



Start Configuration



End Configuration

ITEM	OPTION
Read	
	Disable
	* Enable
Code ID Setting (Default : I)	
	Ref: Appendix (20-7EH)
Check Digit Send	
	Disable
	* Enable
Truncate Leading (Default : 00)	
	Ref: Appendix (00-08H)



Start Configuration



End Configuration

ITEM

OPTION

Truncate Ending
(Default : 00)



Ref: Appendix (00-08H)



* None



2 digits

Supplement Digits



5 digits



2 or 5 digits



Auto-discriminate Supplement

Insert Group Selection
(Default : 00)



Ref: Appendix (00-02H)

3.5 Code 39



Start Configuration



End Configuration







ITEM	OPTION
Read	 Disable
	 * Enable
Code ID Setting (Default : J)	 Ref: Appendix (20-7EH)
	 * Disable
Check-sum Verification	 Enable
	 Disable
Check-sum Transmission	 * Enable



Start Configuration



End Configuration

ITEM	OPTION
Append	 * Disable
	 Enable
Min. Code Length (Default: 00)	 Ref: Appendix (00-32H)
Max. Code Length (Default: 32H)	 Ref: Appendix (00-32H)
Format	 * Standard Code39  Code 39 Full ASCII



Start Configuration



End Configuration

ITEM

OPTION

Transmit Start/End Character



* Disable



Enable

Truncate Leading
(Default: 00)



Ref: Appendix (00-32H)

Truncate Ending
(Default: 00)



Ref: Appendix (00-32H)

Insert Group
Selection (Default: 00)



Ref: Appendix (00-02H)

3.6 Codabar



Start Configuration



End Configuration

ITEM	OPTION
Read	
	Disable
	* Enable
Code ID Setting (Default : K)	
	Ref: Appendix (20-7EH)



Start Configuration



End Configuration

ITEM	OPTION
Check-sum Verification	
	Disable
	* Enable
Check-sum Transmission	
	* Disable
	Enable
Append	
	* Disable
	Enable
Truncate Leading (Default:00)	
	Ref: Appendix (00-7EH)



Start Configuration



End Configuration

ITEM

OPTION

Truncate Ending
(Default:00)



Ref: Appendix (00-7EH)



* ABCD/ABCD

Start/End type



abcd/abcd



abcd/tn*e

Start/End Transmission



* Disable



Enable

Min. Code Length
(Default: 05)





Ref: Appendix (00-3CH)



Start Configuration



End Configuration

ITEM	OPTION
Max. Code Length (Default: 3CH)	 Ref: Appendix (00-3CH)
Insert Group Selection (Default: 00)	 Ref: Appendix (00-02H)

3.7 Code 93



Start Configuration



End Configuration








ITEM	OPTION
Read	
	Disable
	* Enable
Code ID Setting (Default : L)	
	Ref: Appendix (20-7EH)
Check-sum Verification	
	Disable
	* Enable



Start Configuration



End Configuration

ITEM	OPTION
Check-sum Transmission	 * Disable
	 Enable
Min. Code Length (Default: 00)	 Ref: Appendix (0-50H)
Max. Code Length (Default: 50H)	 Ref: Appendix (0-50H)
Truncate Leading (Default: 00)	 Ref: Appendix (00-7EH)
Truncate Ending (Default: 00)	 Ref: Appendix (00-7EH)
Insert Group Selection	 Ref: Appendix (00-02H)

3.8 Code 128



Start Configuration



End Configuration

ITEM	OPTION
Read	
	Disable
	* Enable
Code ID Setting (Default : M)	
	Ref: Appendix (20-7EH)
Check-sum Verification	
	Disable
	* Enable



Start Configuration



End Configuration

ITEM	OPTION
Check-sum Transmission	
	* Disable
	Enable
FNC2 Append	
	* Disable
	Enable
UCC/EAN128	
	* Disable
	Enable
FNC1 Transmission	
	* Disable
	Enable



Start Configuration



End Configuration

ITEM

OPTION

Field Separator Defined
(GS CHARACTER)



Enable Field Separator
Ref: Appendix

Truncate Leading
(Default: 00)



Ref: Appendix (00-7FH)

Truncate Ending
(Default: 00)



Ref: Appendix (00-7FH)

Min. Code Length
(Default: 00)



Ref: Appendix (00-7FH)

Max. Code Length
(Default: 7FH)



Ref: Appendix (00-7FH)

Insert Group
Selection (Default: 00)



Ref: Appendix (00-02H)

3.9 Interleaved 2 of 5



Start Configuration



End Configuration






ITEM	OPTION
Read	 * Disable
	 Enable
Code ID Setting (Default : N)	 Ref: Appendix (20-7EH)
Check-sum Verification	 Disable
	 * Enable
Check-sum Transmission	 Disable
	 * Enable



Start Configuration



End Configuration

ITEM	OPTION
Truncate Leading (Default : 00)	 Ref: Appendix (00-7EH)
Truncate Ending (Default : 00)	 Ref: Appendix (00-7EH)
Min. Code Length (Default : 04)	 Ref: Appendix (04-7FH)
Max. Code Length (Default : 7FH)	 Ref: Appendix (00-7FH)
Insert Group Selection (Default : 00)	 Ref: Appendix (00-02H)

3.10 Industrial 2 of 5



Start Configuration



End Configuration

ITEM	OPTICON
Read	
	* Disable
	Enable
Code ID Setting (Default : 0)	
	Ref: Appendix (20-7EH)
Min. Code Length (Default : 00)	
	Ref: Appendix (00-32H)
Max. Code Length (Default : 32H)	
	Ref: Appendix (00-32H)



Start Configuration



End Configuration

ITEM

OPTION

Truncate Leading
(Default : 00)



Ref: Appendix (00-32H)

Truncate Ending
(Default : 00)



Ref: Appendix (00-32H)

Check-sum Verification



* Disable



Enable

Check-sum Transmission



Disable



* Enable

Insert Group Selection
(Default : 00)



Ref: Appendix (00-02H)

3.11 Matrix 2 of 5



Start Configuration



End Configuration








ITEM	OPTION
Read	
	* Disable
	Enable
Code ID Setting (Default : P)	
	Ref: Appendix (20-7EH)
Check-sum Verification	
	* Disable
	Enable



Start Configuration



End Configuration

ITEM	OPTION
Check-sum Transmission	 Disable
	 * Enable
Truncate Leading (Default : 00)	 Ref: Appendix (00-50H)
Truncate Ending (Default : 00)	 Ref: Appendix (00-50H)
Min. Code Length (Default : 0B)	 Ref: Appendix (00-50H)
Max. Code Length (Default : 50H)	 Ref: Appendix (00-50H)
Insert Group Selection (Default : 00)	 Ref: Appendix (00-02H)

3.12 China Postage



Start Configuration



End Configuration






ITEM	OPTION
Read	
	* Disable
	
	Enable
Code ID Setting (Default : Q)	
	Ref: Appendix (20-7EH)
Check-sum Verification	
	* Disable
	
	Enable
Check-sum Transmission	
	Disable
	
	* Enable



Start Configuration



End Configuration

ITEM	OPTION
Truncate Leading (Default : 00)	 Ref: Appendix (00-50H)
Truncate Ending (Default : 00)	 Ref: Appendix (00-50H)
Min. Code Length (Default : 00)	 Ref: Appendix (00-50H)
Max. Code Length (Default : 50H)	 Ref: Appendix (00-50H)
Insert Group Selection (Default : 00)	 Ref: Appendix (00-02H)

3.13 MSI/Plessey



Start Configuration



End Configuration








ITEM	OPTION
Read	
	* Disable
	Enable
Code ID Setting (Default : R)	
	Ref: Appendix (20-7EH)
Check-sum Verification	
	* Disable
	MOD 10
	MOD 10/10
	MOD 11/10



Start Configuration



End Configuration

ITEM	OPTION
Check-sum Transmission	 Disable
	 * Enable
Truncate Leading (Default : 00)	 Ref: Appendix (00-3CH)
Truncate Ending (Default : 00)	 Ref: Appendix (00-3CH)
Min. Code Length (Default : 00)	 Ref: Appendix (00-3CH)
Max. Code Length (Default : 3CH)	 Ref: Appendix (00-3CH)
Insert Group Selection (Default : 00)	 Ref: Appendix (00-02H)






3.14 Code 32



Start Configuration



End Configuration




ITEM	OPTION
Read	
	* Disable
	
	Enable
Code ID Setting (Default:S)	
	Ref: Appendix (20-7EH)
Check-sum Verification	
	Disable
	
	* Enable
Check-sum Transmission	
	Disable
	
	* Enable



Start Configuration



End Configuration

ITEM	OPTION
Truncate Leading (Default : 00)	 Ref: Appendix (00-0AH)
Truncate Ending (Default : 00)	 Ref: Appendix (00-0AH)
Insert Group Selection (Default : 00)	 Ref: Appendix (00-02H)

3.15 Code 11



Start Configuration



End Configuration








ITEM	OPTION
Read	
	* Disable
	Enable
Code ID Setting (Default:T)	
	Ref: Appendix (20-7EH)
Check-sum Verification	
	Disable
	* Enable



Start Configuration



End Configuration

ITEM	OPTION
Check-sum Transmission	 * Disable
	 Enable
Truncate Leading (Default : 00)	 Ref: Appendix (00-50H)
Truncate Ending (Default : 00)	 Ref: Appendix (00-50H)
Min. Code Length (Default : 00)	 Ref: Appendix (00-50H)
Max. Code Length (Default : 50H)	 Ref: Appendix (00-50H)
Insert Group Selection (Default : 00)	 Ref: Appendix (00-02H)








3.16 Telepen



Start Configuration



End Configuration








ITEM	OPTION
Read	
	* Disable
	
	Enable
Code ID Setting (Default:V)	
	Ref: Appendix (20-7EH)
Check-sum Verification	
	Disable
	
	* Enable
Data Format	
	Only Numnic
	
	*Full ASCII



Start Configuration



End Configuration

ITEM	OPTION
Check-sum Transmission	 * Disable
	 Enable
Truncate Leading (Default : 00)	 Ref: Appendix (00-40H)
Truncate Ending (Default : 00)	 Ref: Appendix (00-40H)
Min. Code Length (Default : 00)	 Ref: Appendix (00-40H)
Max. Code Length (Default : 40H)	 Ref: Appendix (00-40H)
Insert Group Selection (Default : 00)	 Ref: Appendix (00-02H)

3.17 GS1 Data Bar (RSS)



Start Configuration



End Configuration

ITEM

OPTION

RSS-14



Enable



*Disable

RSS-14 Limited



Enable



*Disable

RSS-14 Expanded



Enable



*Disable

RSS To UPC/EAN



Enable



*Disable



Start Configuration



End Configuration

ITEM

OPTION

Application ID Transmission



*Enable



Disable

Checksum Transmission



*Enable



Disable

Appendix

KBD Wedge Character Table

	0		1		2	3	4	5	6	7
	Type 1		Type 1							
0			DLE		SP	0	@	P	`	p
1	SOH		DC1		!	1	A	Q	a	q
2	STX		DC2		"	2	B	R	b	r
3	ETX		DC3		#	3	C	S	c	s
4	ETO		DC4		\$	4	D	T	d	t
5	EAQ		NAK		%	5	E	U	e	u
6	ACK		SYN		&	6	F	V	f	v
7	BEL		ETB		'	7	G	W	g	w
8	BS		CAN		(	8	H	X	h	x
9	HT		EM		)	9	I	Y	i	y
A	LF		SUB		*	:	J	Z	j	z
B	VT		ESC		+	;	K	[	k	{
C	FF		FS		,	<	L	\	l	|
D	CR		GS		-	=	M	]	m	}
E	SO		RS		.	>	N	^	n	~
F	SI		US		/	?	O	_	o	DEL

Dec	Hex	Char.	Dec	Hex	Char.
0	00	NUL	32	20	SP
1	01	SOH	33	21	!
2	02	STX	34	22	"
3	03	ETX	35	23	#
4	04	EOT	36	24	\$
5	05	ENQ	37	25	%
6	06	ACK	38	26	&
7	07	BEL	39	27	'
8	08	BS	40	28	(
9	09	HT	41	29)
10	0A	LF	42	2A	*
11	0B	VT	43	2B	+
12	0C	FF	44	2C	,
13	0D	CR	45	2D	-
14	0E	SO	46	2E	.
15	0F	SI	47	2F	/
16	10	DLE	48	30	0
17	11	DC1	49	31	1
18	12	DC2	50	32	2
19	13	DC3	51	33	3
20	14	DC4	52	34	4
21	15	NAK	53	35	5
22	16	SYN	54	36	6
23	17	ETB	55	37	7
24	18	CAN	56	38	8
25	19	EM	57	39	9
26	1A	SUB	58	3A	:
27	1B	ESC	59	3B	;
28	1C	FS	60	3C	<
29	1D	GS	61	3D	=
30	1E	RS	62	3E	>
31	1F	US	63	3F	?

Dec	Hex	Char.	Dec	Hex	Char.
64	40	@	96	60	'
65	41	A	97	61	a
66	42	B	98	62	b
67	43	C	99	63	c
68	44	D	100	64	d
69	45	E	101	65	e
70	46	F	102	66	f
71	47	G	103	67	G
72	48	H	104	68	h
73	49	I	105	69	i
74	4A	J	106	6A	j
75	4B	K	107	6B	k
76	4C	L	108	6C	l
77	4D	M	109	6D	m
78	4E	N	110	6E	n
79	4F	O	111	6F	o
80	50	P	112	70	P
81	51	Q	113	71	q
82	52	R	114	72	r
83	53	S	115	73	s
84	54	T	116	74	t
85	55	U	117	75	u
86	56	V	118	76	v
87	57	W	119	77	w
88	58	X	120	78	x
89	59	Y	121	79	y
90	5A	Z	122	7A	z
91	5B	[	123	7B	{
92	5C	\	124	7C	|
93	5D	}	125	7D	}
94	5E	^	126	7E	~
95	5F	_	127	7F	DEL

Hex Table



1



2



3



4



5



6



7



8



9



0



A



B



C



D



E



F



Confirm Configuration



End Configuration