



Toshiba TEC

Programmer's Guide



TOSHIBA TEC PROGRAMMER'S GUIDE

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Revision A

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Revision History

Changes to the original guide are listed below:

Change	Date	Description
MN-002707-01 Rev A	4/2016	Initial Release
MN-002707-02EN Rev A	2/2021	Add new note on page 1-1.

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ABOUT THIS GUIDE

Introduction

This Programmer's Guide provides the bar codes necessary to program a scanner for the Toshiba TEC host.

Chapter Descriptions

Topics covered in this guide are as follows:

- [Chapter 1, Introduction to Toshiba TEC](#) provides the defaults for the Toshiba TEC host type and the programming bar code for selecting this host.
- [Chapter 2, Toshiba TEC Host Parameters](#) provides programming bar codes for the Toshiba TEC host.
- [Appendix A, Numeric Bar Codes](#) includes the numeric bar codes to scan for parameters requiring specific numeric values.

Notational Conventions

The following conventions are used in this document:

- *Italics* are used to highlight the following:
 - Chapters and sections in this guide
 - Related documents
- **Bold** text is used to highlight the following:
 - Dialog box, window and screen names
 - Drop-down list and list box names
 - Check box and radio button names
 - Icons on a screen
 - Key names on a keypad
 - Button names on a screen.

- Bullets (•) indicate:
 - Action items
 - Lists of alternatives
 - Lists of required steps that are not necessarily sequential.
- Sequential lists (e.g., those that describe step-by-step procedures) appear as numbered lists.

CHAPTER 1 INTRODUCTION TO TOSHIBA TEC

Introduction

This chapter lists the defaults for the Toshiba TEC host type, and provides the programming bar code for selecting this host.

USB Toshiba TEC Host Type

✓ **NOTE** Before scanning USB **Toshiba TEC Host** or connecting a Toshiba TEC device, make sure you are connected to a device that has the Toshiba TEC drivers. If the driver is not installed, the scanner stalls on power-up.

To recover a stalled scanner:
Install the Toshiba TEC driver.

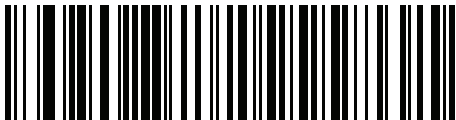
or

On some devices, after power-up, hold the trigger for 5-10 seconds, which allows the digital scanner to power-up using an alternate USB configuration. Upon power-up, scan another USB device type.

or

Power-up using a serial cable and scan another USB device type.

Scan the following bar code to select the Toshiba TEC host as the USB device type.



Toshiba TEC Host

Toshiba TEC Parameter Defaults

[Table 1-1](#) lists the defaults for USB Toshiba TEC host parameters. To change any option, scan the appropriate bar code(s) provided in [Chapter 2, Toshiba TEC Host Parameters](#).

Table 1-1 *Toshiba TEC Parameter Defaults*

Parameter	Default	Page Number
Code Type Table Usage	Use Table 0 Identifier	2-2
Include Symbol Type	Add Symbol Types	2-3
Include Character Counts	Add Character Counts	2-3
Include Header	Add Header Character	2-4
Include Terminator	Add Terminator Character (s)	2-4
Header Character	Add STX (002)	2-5
Terminator Character	Add ETX (003)	2-5
Light LED on Good Decode	Light LED on Good Decode	2-6
Good Decode Beep Timing	Indicate Before Transmission	2-6
QR Pre-Scan Parsing	Enable	2-7
QR Pre-Scan Parsing Transmit Interval	0 msec (No Delay)	2-8
USB Suspend Mode	Detach	2-9
USB Suspend Detach Delay	1 second	2-10

Toshiba TEC Host Specific Default Variations

[Table 1-2](#) lists the parameter default changes for the Toshiba TEC host.

Table 1-2 *Toshiba TEC Default Variations*

Parameter	Standard Defaults 1D Scanner	Standard Defaults 2D Scanner	Toshiba TEC Default
Interleaved 2 of 5	Enable	Enable	Disable
Codabar	Enable	Enable	Disable
Code 93	Enable	Enable	Disable
GS1 Databar 14	Enable	Enable	Disable
GS1 Databar Limited	Enable	Enable	Disable
GS1 Databar Expanded	Enable	Enable	Disable
Transmit UPC-E Check Digit	Enable	Enable	Disable
GS1-128	Enable	Enable	Disable
PDF417	Not Applicable	Enable	Disable
Data Matrix	Not Applicable	Enable	Disable
Micro QR	Not Applicable	Enable	Disable
Aztec	Not Applicable	Enable	Disable
Code 39 Lengths	1-80	1-55	2-55
Codabar Lengths	4-60	4-55	5-55
Discrete 2 of 5 Lengths	1-55	1-55	12
Interleaved 2 of 5 Lengths	6-80	6-55	14
Code 93 lengths	1-80	1-55	4-55

CHAPTER 2 TOSHIBA TEC HOST PARAMETERS

Introduction

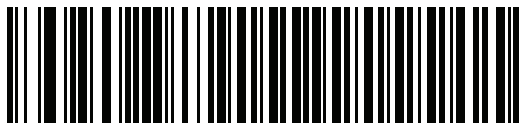
This chapter provides programming bar codes for the Toshiba TEC host. Before using these bar codes, first select the [USB Toshiba TEC Host Type on page 1-1](#), and connect the scanner to a Toshiba TEC register.

Toshiba TEC Code Type Table Usage

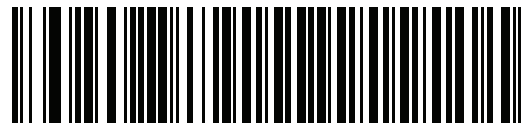
This option sets the Toshiba TEC specific symbol table to use to identify bar code types.

Table 2-1 *Toshiba TEC Symbol Type Table*

Code Type	Table 0 Identifier	Table 1 Identifier
UPC-A	A	A
UPC-E	E	C
EAN-8	FF	B
EAN-13	F	A
Codabar (NW-7)	N	N
Code 39	M	M
I25	I	I
D25 (Standard 2 of 5)	H	H
Code 93	L	L
Code 128	K	K
RSS	R	R
All Others	X	X



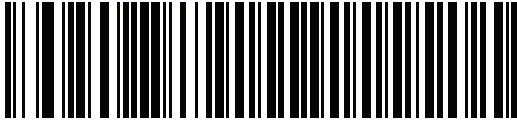
***Use Table 0 Identifier**



Use Table 1 Identifier

Include Symbol Type

This option determines whether to use the Toshiba TEC Symbol Table to identify bar code types.



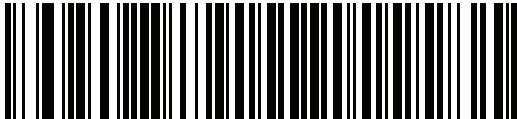
***Add Symbol Types**



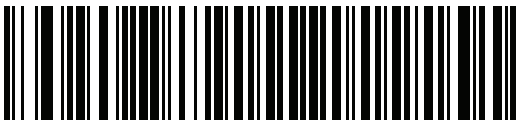
Do Not Add Symbol Types

Include Character Counts

This option determines whether to prefix the count of characters in the bar code to the decoded data before transmission. This applies to all the code types except the UPC and EAN families.



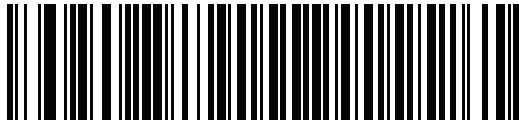
***Add Character Counts**



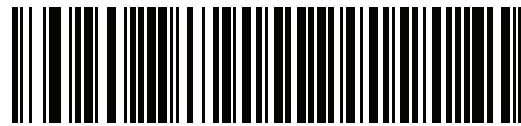
Do Not Add Character Counts

Include Header

This option determines whether to prefix the header character to the decoded data before transmission. The default header character is the STX (002) character. To change this, see [Header Character on page 2-5](#).



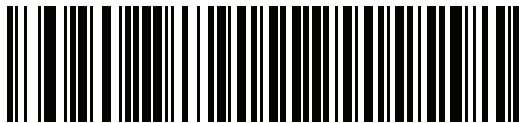
***Add Header Character**



Do Not Add Header Character

Include Terminator

This option determines whether to append the terminator character(s) to the decoded data before transmission. The default terminator character is the ETX (003) character. To change this, see [Terminator Character on page 2-5](#). You can define one or two terminator characters.



***Add Terminator Character(s)**



Do Not Add Terminator Character(s)

Header Character

This option specifies the header character prefixed onto the decoded data before transmission. The default header character is the STX (002) character. To program a header character, scan the bar code below followed by three numeric bar codes in [Appendix A, Numeric Bar Codes](#). Valid values are 000 to 255 and specify the decimal value for the header.

✓ **NOTE** It is NOT POSSIBLE to use the NULL character (000) as the prefix as this is the default value and indicates that an STX must be used.

Values: 000 = Add STX (002)

To specify other characters, enter the three digits that correspond to the ASCII value for the character.



Toshiba TEC Header Character

Terminator Character

This option specifies the terminator character(s) appended onto the decoded data before transmission. The default terminator character is the ETX (003) character. To program a terminator character, scan the bar code below followed by three numeric bar codes in [Appendix A, Numeric Bar Codes](#). Valid values are 000 to 255 and specify the decimal value for the terminator.

✓ **NOTE** It is NOT POSSIBLE to use the NULL character (000) as either of the terminators as this is the default value and indicates that an ETX must be used.

Values: 000 = Add ETX (003)

If the first character is NULL (000), then only an ETX is appended, and the second terminator character is ignored, even if it was defined.

To specify other characters, enter the three digits that correspond to the ASCII value for the character.



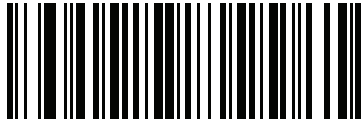
Terminator Character 1



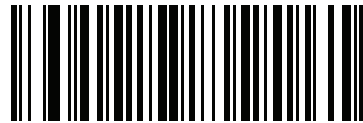
Terminator Character 2

Light LED on Good Decode

This option specifies whether or not to light the *Good Decode LED* on a good decode.



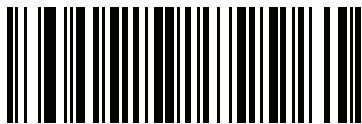
***Light LED on Good Decode**



Do Not Light LED on Good Decode

Good Decode Beep Timing

This option determines whether a good decode indication occurs before or after the bar code transmits to the host.



***Indicate Before Transmission**



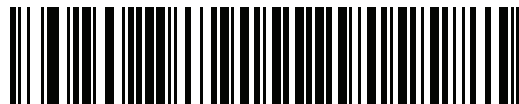
Indicate After Transmission

QR Pre-Scan Parsing

This option enables or disables parsing specified QR pre-scan bar codes.



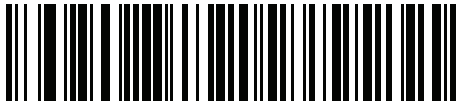
***Enable Parsing**



Disable Parsing

QR Pre-Scan Parsing Transmit Interval

This option specifies the delay between each transmission of the parsed QR scanned bar codes. The default is no delay.



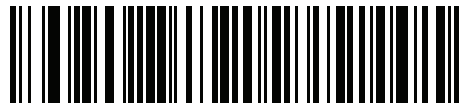
***0 msec (No Delay)**



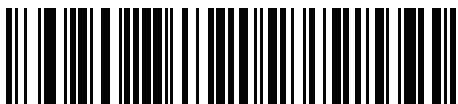
10 msec



20 msec



50 msec

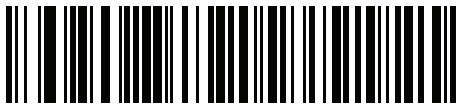


100 msec



200 msec

QR Pre-Scan Parsing Transmit Interval (continued)



500 msec



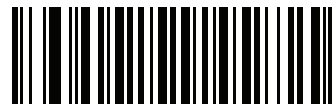
1000 msec

Toshiba TEC USB Suspend Mode

This option specifies whether the scanner performs a USB suspend operation or a detach operation upon receiving a **Suspend** command from the host.



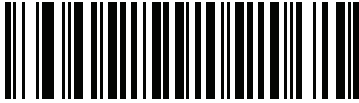
***Detach When Suspend Received**



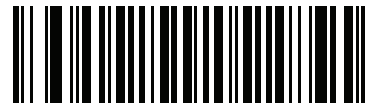
Suspend When Suspend Received

USB Suspend Detach Delay

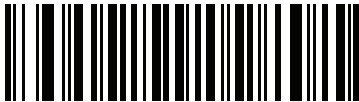
If you set *Toshiba TEC USB Suspend Mode* to **Detach When Suspend Received**, this option specifies how long the scanner waits before detaching after receiving a Suspend command.



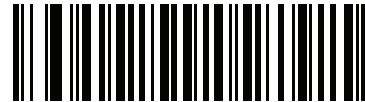
200 msec



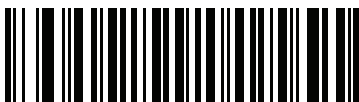
500 msec



*1 second



1.5 seconds



2 seconds

APPENDIX A NUMERIC BAR CODES

Numeric Bar Codes

For parameters requiring specific numeric values, scan the appropriately numbered bar code(s).



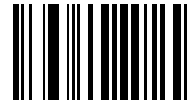
Numeric Bar Codes (continued)



5



6



7



8



9

Cancel

To correct an error or change a selection, scan the bar code below.



Cancel



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