

**TEC**

TOSHIBA TEC Bar Code Printer

**B-SX4T-GS10-QQ/QP/CN,**

**B-SX5T-TS10-QQ/QP/CN**

**External Equipment Interface Specification**

First Edition: November 18, 2002

**TOSHIBA TEC CORPORATION**

## TABLE OF CONTENTS

	Page
<b>1. SCOPE .....</b>	<b>1</b>
<b>2. GENERAL DESCRIPTION.....</b>	<b>1</b>
<b>3. INTERFACE.....</b>	<b>4</b>
3.1    SERIAL INTERFACE.....	4
3.2    PARALLEL INTERFACE .....	9
3.3    USB INTERFACE .....	18
3.4    NETWORK INTERFACE.....	19
<b>4. KEY OPERATION FUNCTIONS .....</b>	<b>20</b>
4.1    SYSTEM MODE FUNCTIONS .....	20
4.2    ONLINE MODE FUNCTIONS.....	25
4.3    DOWNLOAD MODE SETTING FUNCTION .....	25
<b>5. TRANSMISSION SEQUENCE .....</b>	<b>26</b>
5.1    INITIALIZATION .....	26
5.2    LABEL ISSUE OPERATION.....	28
<b>6. INTERFACE COMMANDS.....</b>	<b>30</b>
6.1    OUTLINE OF COMMANDS.....	30
6.2    LIST OF COMMANDS .....	31
6.3    COMMANDS FOR CREATING APPLICATION .....	33
6.3.1    LABEL SIZE SET COMMAND.....	33
6.3.2    POSITION FINE ADJUST COMMAND .....	39
6.3.3    PRINT DENSITY FINE ADJUST COMMAND .....	47
6.3.4    RIBBON MOTOR DRIVE VOLTAGE FINE ADJUST COMMAND .....	48
6.3.5    IMAGE BUFFER CLEAR COMMAND .....	49
6.3.6    CLEAR AREA COMMAND .....	50
6.3.7    LINE FORMAT COMMAND .....	52
6.3.8    BIT MAP FONT FORMAT COMMAND .....	56
6.3.9    OUTLINE FONT FORMAT COMMAND .....	73
6.3.10    BAR CODE FORMAT COMMAND.....	90
6.3.11    BIT MAP FONT DATA COMMAND .....	127
6.3.12    OUTLINE FONT DATA COMMAND.....	132
6.3.13    BAR CODE DATA COMMAND .....	135
6.3.14    ISSUE COMMAND .....	148
6.3.15    FEED COMMAND .....	163
6.3.16    EJECT COMMAND .....	170
6.3.17    FORWARD/REVERSE FEED COMMAND .....	172
6.3.18    STORAGE AREA ALLOCATE COMMAND .....	174
6.3.19    FLASH MEMORY FORMAT COMMAND.....	176
6.3.20    ATA CARD FORMAT COMMAND .....	177

	Page
6.3.21 2-BYTE WRITABLE CHARACTER CODE RANGE COMMAND .....	178
6.3.22 BIT MAP WRITABLE CHARACTER COMMAND ([ESC] XD) .....	179
6.3.23 BIT MAP WRITABLE CHARACTER COMMAND ([ESC] XA).....	180
6.3.24 GRAPHIC COMMAND .....	191
6.3.25 SAVE START COMMAND ([ESC] XO) .....	199
6.3.26 SAVE START COMMAND ([ESC] XV).....	200
6.3.27 SAVE TERMINATE COMMAND .....	201
6.3.28 SAVED DATA CALL COMMAND ([ESC] XQ).....	202
6.3.29 SAVED DATA CALL COMMAND ([ESC] XT) .....	203
6.3.30 HEAD BROKEN DOTS CHECK COMMAND .....	204
6.3.31 MESSAGE DISPLAY COMMAND .....	205
6.3.32 RESET COMMAND .....	207
6.3.33 STATUS REQUEST COMMAND .....	208
6.3.34 RECEIVE BUFFER FREE SPACE REQUEST COMMAND .....	209
6.3.35 VERSION INFORMATION ACQUIRE COMMAND.....	210
6.3.36 ATA CARD INFORMATION ACQUIRE COMMAND.....	211
6.3.37 ATA CARD WRITABLE CHARACTER INFORMATION ACQUIRE COMMAND.....	213
6.3.38 IP ADDRESS SET COMMAND .....	214
6.3.39 SOCKET COMMUNICATION PORT SET COMMAND .....	215
6.3.40 DHCP FUNCTION SET COMMAND .....	216
6.3.41 PASS-THROUGH COMMAND.....	217
6.3.42 INTERNAL SERIAL INTERFACE PARAMETER SET COMMAND .....	218
6.4 COMMANDS FOR SYSTEM ADMINISTRATOR .....	219
6.4.1 PARAMETER SET COMMAND .....	219
6.4.2 FINE ADJUSTMENT VALUE SET COMMAND .....	223
6.4.3 BATCH RESET COMMAND .....	225
<b>7. CONTROL CODE SELECTION .....</b>	<b>226</b>
<b>8. ERROR PROCESSING .....</b>	<b>227</b>
8.1 COMMUNICATION ERRORS .....	227
8.2 ERRORS IN ISSUING OR FEEDING.....	227
8.3 ERRORS IN WRITABLE CHARACTER AND PC COMMAND SAVE MODES .....	230
8.4 SYSTEM ERRORS.....	230
8.5 RESET PROCESSING.....	230
<b>9. STATUS RESPONSE.....</b>	<b>231</b>
9.1 SERIAL INTERFACE (RS-232C, USB) AND CENTRONICS ECP MODE .....	231
9.1.1 FUNCTIONS.....	231
9.1.2 STATUS FORMAT .....	232
9.1.3 DETAIL STATUS.....	233
9.2 PARALLEL INTERFACE .....	235
9.2.1 COMPATIBILITY MODE.....	235
9.3 E-MAIL .....	236



This is a “Table of Contents preview” for quality assurance

The full manual can be purchased from our store:

[https://the-checkout-tech.com/manuals/TEC/B-SX Interface Specification1 manual.html](https://the-checkout-tech.com/manuals/TEC/B-SX%20Interface%20Specification1%20manual.html)

And our free Online Keysheet maker:

<https://the-checkout-tech.com/Cash-Register-Keysheet-Creator/>

[HTTPS://THE-CHECKOUT-TECH.COM](https://THE-CHECKOUT-TECH.COM)