



Toshiba XM-6401B Specification

Cd-rom drive

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DISK PRODUCTS DIVISION

XM-6401B **TOSHIBA**

CD-ROM DRIVE

PRODUCT SPECIFICATION

DECEMBER 1998

REV. 1.0

Specifications are subject to change without notice

DOCUMENT NUMBER
11880

TOSHIBA

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(35 pages)

[DC Drives Toshiba XM-6201B Installation Manual](#)

Scsi cd-rom drive (18 pages)

[DC Drives Toshiba G9 Installation And Operation Manual](#)

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[DC Drives Toshiba SuperMulti Drive Manual](#)

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For parameter f608-f608 (4 pages)

[DC Drives Toshiba H7 Operation Manuals](#)

Adjustable speed drive (230 pages)

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Option, parameter writer (20 pages)

Summary of Contents for Toshiba XM-6401B

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[Page 2](#) 1.This product has no over-current protection circuit. System should have appropriate over-current protection. Toshiba Corporation makes no warranty of damages caused by no over-current protection. 2.This has a little possibility of errors. To prevent damages and injury caused by the above, careful consideration for the safety and integrity should be taken in the system

design.

[Page 3](#) 11. In the instruction manual of your product, statement described in "Safety Instruction Manual "attached to this product, the statement of item 2 ,7 and 9 above, and other required statements should be mentioned for thorough understanding by the users. XM-6401B Rev.1.0...

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[Page 6: Introduction](#)

A CD-ROM disc can also store other types of information in addition to digital/binary data. It is capable of storing audio information. The XM-6401B is therefore capable of reproducing CD-audio (Such as music Compact Discs) and can be used as a CD-audio player, independent of the computer system.

[Page 8: Specifications](#)

(Average of Forward and Backward) (6) Spin up Time (Focus Search Time and Disc Motor Start up Time) 3.5 s Typ (40X) 5.5 s Max (40X) (7) Data Buffer Capacity 256 KByte 3/27 XM-6401B Rev.1.0...

[Page 10: Vibration](#)

(Half sine wave 11 ms) (3) Drop (Packaged) ----- no damage ----- (a) Bulk Package (15/Bulk) 1 drop at 0.4 m (Bottom side only) (b) Individual Package 0.9 m drop once for each 6-surfaces, 1-edge and 1-corner 5/27 XM-6401B Rev.1.0...

[Page 12](#) XM-6401B EXTERNAL DIMENSIONS (Unit: mm) Figure 2-1 External Dimensions (Unit: mm) 7/27 XM-6401B Rev.1.0...

[Page 13](#) XM-6401B EXTERNAL DIMENSIONS (Unit: mm) Figure 2-2 External Dimensions (Unit: mm) 8/27 XM-6401B Rev.1.0...

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(4) SCSI Control and CD - ROM Error Correction Circuit and SCSI I/O Interface Circuit (5) System Control Circuit 4.2. Optical Pickup Semiconductor Laser and 3-beam System 4.3. Spindle Motor Brushless DC Motor 4.4. Feed Motor DC Motor 4.5. Load/Eject Motor DC Motor 9/27 XM-6401B Rev.1.0...

[Page 15](#) Line TC9450AF BH3543F AUDIO EFE. D-OUT H.P. HP AMP TA2140FN TRAY LOAD DISC MOTOR RF AMP DE. MOD. PXR-540G VCO CONTROL -HT-0203 SERVO CD-ROM SYNC. DEFECT FEED DESCRAMBLE SERVO LC89512 7 MOTOR CONTROL 2M DRAM MASTER 128k x 16 bit CLOCK GEN.

[Page 16: Functions](#)

Max. 2 s Focus Search Max. 5 s Spindle ON Learning Typ. 8 s, Max.12 s (Single Session Disc) Stand-by "Read-Command" Acceptable "TEST UNIT READY" Command Correspondence "Check Condition" Status "Good" Status No Reply Figure 5 Initialization Sequence 11/27 XM-6401B Rev.1.0...

[Page 17: Interfaces](#)

Also be sure to attach the frame ground for grounding with the host system. 6.1.2. Receivers and Drivers Figure 11 shows the construction and Figure 13 shows the interface pin assignments. 6.1.3. Connector Figure 12 shows the details of connector and Figure 13 shows the interface pin assignments. 12/27 XM-6401B Rev.1.0...

[Page 18: Power Requirements](#)

0.60 A (17.3-40X) 0.60 A (17.3-40X) 7.2.5. Maximum (100 % Random Access) 0.62 A (17.3-4.X) 0.72 A (17.3-40X) 7.2.6. Peck in executing Access (10 to 300 ms) 1.35 A (17.3-40X) 1.21 A (17.3-40X) 13/27 XM-6401B Rev.1.0...

[Page 19](#) XM-6401Bs are used as Drive 1 and/or Drive 2. ---- Max. 7 units connectable (SCSI Bus) Terminator Terminator Drive 1 Drive 2 Drive 3 Interface Card Frame Ground Host System Figure 8 Daisy Chain Connection --- Turn off Internal Terminators from the drive according ----- 14/27 XM-6401B Rev.1.0...

[Page 20](#) Frame Ground Host System Figure 9 Radial Connection Terminator Terminator Terminator Terminator Drive 1 Drive 2 Interface Interface Card Card Frame Ground Host System Figure 10 Radial Connection according ----- Turn off Internal Terminators from those drives --- 15/27 XM-6401B Rev.1.0...

[Page 21](#) +5 V Terminator ON/OFF Active Terminator 7438 or equiv. 74LS240 or equiv. Controller CD-ROM Drive +5 V +5 V Terminator ON/OFF Active Terminator 74LS240 or equiv. 7438 or equiv. Controller CD-ROM Drive Figure 11 Receivers and Drivers 16/27 XM-6401B Rev.1.0...

[Page 22](#) 96.79 92.77 69.09 21.18 60.96 15.24 5.08 2.54 9.535 71.165 23.64 Figure 12 Interface Connector 17/27 XM-6401B Rev.1.0...

[Page 23](#) " TERM POWER (+5 V) NO CONNECTION " -ATN " " -BSY " -ACK " -RST " -MSG " -SEL " -C / D " -REQ " -I / O " Figure 13 Interface Connector Pin Assignment 18/27 XM-6401B Rev.1.0...

[Page 24: Connector](#)

(Connector, Part No. 008283031100000, made by KYOCERA ELCO Corporation is used. Use matching housing, Part No. 608283303815000, made by KYOCERA ELCO Corporation or equivalent.) PIN #1: GND PIN #2: R PIN #3: L Figure 15 Audio Connector 19/27 XM-6401B Rev.1.0...

[Page 25: Headphones Output](#)

Set up of SCSI-ID number, Parity Check function, Eject Button inhibit function and CD-Audio Playback mode etc. are available by shorting these Headers. POWER TERM ID 1 ID 2 ID 4 PRTY ON/OFF PRV/ALW TEST SUPPLY Figure 16 Mode Select Headers 20/27 XM-6401B Rev.1.0...

[Page 26: Scsi-Id](#)

The drive checks parity, and also the output parity is effective. O: Open S: Short 9.3. Terminator Power ON/OFF (TERM ON/OFF) This Head setting turn on or turn off the terminator. Header Description The terminator is turn off. The terminator is turn on. O: Open S: Short 21/27 XM-6401B Rev.1.0...

[Page 27: Media Eject Prevention](#)

9.7. Jumper (Part Number T/E) Use P/N 9251H-GF made by IRISO Electronics or equivalent. 9.8. Recognition of Setting As the setting recognition is performed only after power On, turn power off and then On again whenever change is made. 22/27 XM-6401B Rev.1.0...

[Page 28: Busy Indicator](#)

(2) When playing an audio track, Busy Indicator is blinking at 1.6 s intervals. 1.6 s Figurer 21
CD-Audio playback (3) When performing 'Data Access' and during 'Data Transfer' Busy Indicator
keeps turn On. Light On Figurer 22 Data Access and Data Transfer 23/27 XM-6401B Rev.1.0...

[Page 29: Connections](#)

(1) Turn the CD-ROM drive supplying power off, and then keep the this condition for 1 minute.
(2) Insert solid bar (like paper clip) into Emergency eject hole and push as shown in Fig.23. Then
Tray will be ejected. diameter 1.0 - 1.5 mm Figurer 23 24/27 XM-6401B Rev.1.0...

[Page 30: Safety Standards/Agency Approvals](#)

15 units in a bulk package 24 bulk packs on one pallet. *All transportation is allowed with pallet.
(Transportation is not allowed with bulk package.) Standard packaging Specifications: IB-CD1-
A80002 18. CE Declaration of conformity Please refer to attached Annex 1. 25/27 XM-6401B
Rev.1.0...

[Page 31](#) Options: None Toshiba declares that the above mentioned product(s) with or without
the listed options comply to the EU-Directives and standards as listed on page 2. Last two digits
of the year in which the CE mark affixed : 98...

[Page 32](#) 89/336/EEC CD-ROM Drive XM-6401B Address Manufactuer(s) Location Toshiba Multi
Media Devices Co, Ltd. 19 Minase, Fukihata Goshogawara-shi, Aomori 037-0003 Japan Toshiba
Misawa Media Devices Co, Ltd. 3-31-2779, Minami-cho, Misawa-shi, Aomori-ken 033-0036 Japan
Toshiba Information Equipment (Philippines) Inc. 103 East Main Avenue Extension, Special
Export Processing Zone, Laguna Technopark, Binan, Laguna Philippines Integrated
Microelectronic Inc.