TOSHIBA
Leading Innovation >>>

Operator's Manual

e-BRIDGE ID Gate
KP-2005

CONTENTS

PREFACE

Thank you for purchasing the e-BRIDGE ID Gate.
This *Operator's Manual* describes how to use the e-BRIDGE ID Gate properly, how to perform settings and how to resolve problems.
Be sure to read this manual before using the e-BRIDGE ID Gate in order to fully understand its features and utilize them efficiently. Keep this manual handy and retain it for future reference.
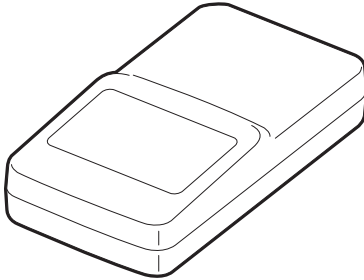
Features of the e-BRIDGE ID Gate

The e-BRIDGE ID Gate is an IC card reader which reads noncontact IC card data using MIFARE technology from NXP Semiconductors. When you put a registered IC card close to the e-BRIDGE ID Gate, a server gives you the user authentication of the Toshiba Multifunctional Digital System.

How to read this manual

Symbols in this manual

In this manual, some important items are described with the symbols shown below. Be sure to read these items before using this equipment.

⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death, serious injury, or serious damage, or fire in the equipment or surrounding objects.
⚠ CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, partial damage to the equipment or surrounding objects, or loss of data.
Note	Indicates information to which you should pay attention when operating the equipment.

Other than the above, this manual also describes information that may be useful for the operation of this equipment with the following signage:

Tip	Describes handy information that is useful to know when operating the equipment.
📖	Pages describing items related to what you are currently doing. See these pages as required.

13.56MHz RFID Reader

FCC portion

This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

⚠ CAUTION

Any changes or modifications not expressly approved by the party responsible for product compliance could void the user's authority to operate the equipment.

Industry Canada Portion

Canada Regulatory Compliance Statement

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numériqué de la classe A est conformé à la norme NMB-003 du Canada.

For Customers in Canada

This device complies with RSS 210 of Industry Canada (IC).
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.
L'utilisation de ce dispositif est autorisee seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit etre pret a accepter tout brouillage radio-electrique recu, meme si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

EU Portion

European Community Declaration of Conformity with Regard to the R&TTE Directive 1999/5/EC

The following standards were applied: (R&TTE Directive 1999/5/EEC)
- EN 301 489-1 & EN 301 489-3
- EN 300 330-2
- EN 60950-1

Declaration of Conformity with Regard to the R&TTE Directive 1999/5/EC

Hereby, Toshiba TEC Corporation declares that this KP-2005 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Česky [Czech]	Toshiba TEC Corporation tímto prohlašuje, že tento KP-2005 je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Dansk [Danish]	Undertegnede Toshiba TEC Corporation erklærer herved, at følgende udstyr KP-2005 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch [German]	Hiermit erklärt Toshiba TEC Corporation dass sich das Gerät KP-2005 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

Eesti [Estonian]	Käesolevaga kinnitab Toshiba TEC Corporation seadme KP-2005 vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
Español [Spanish]	Por medio de la presente Toshiba TEC Corporation declara que el KP-2005 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Toshiba TEC Corporation ΔΗΛΩΝΕΙ ΟΤΙ KP-2005 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Français [French]	Par la présente Toshiba TEC Corporation déclare que l'appareil KP-2005 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Italiano [Italian]	Con la presente Toshiba TEC Corporation dichiara che questo KP-2005 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo Toshiba TEC Corporation deklarē, ka KP-2005 atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo Toshiba TEC Corporation deklaruoja, kad šis KP-2005 atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederlands [Dutch]	Hierbij verklaart Toshiba TEC Corporation dat het toestel KP-2005 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]	Hawnhekk, Toshiba TEC Corporation , jiddikjara li dan KP-2005 jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
Magyar [Hungarian]	Alulírott, Toshiba TEC Corporation nyilatkozom, hogy a KP-2005 megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Polski [Polish]	Niniejszym, Toshiba TEC Corporation , deklaruję, że KP-2005 spełnia wymagania zasadnicze oraz stosowne postanowienia zawarte Dyrektywie 1999/5/EC.
Português [Portuguese]	Toshiba TEC Corporation declara que este KP-2005 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Slovensko [Slovenian]	Toshiba TEC Corporation izjavlja, da je ta KP-2005 v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	Toshiba TEC Corporation týmto vyhlasuje, že KP-2005 spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Suomi [Finnish]	Toshiba TEC Corporation vakuuttaa täten että KP-2005 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar Toshiba TEC Corporation att denna KP-2005 står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Singapore Portion

Complies with
IDA Standards
DA101747

Trademarks

- MIFARE is a contactless IC card technology developed by Royal Philips Electronics (currently called NXP Semiconductors). MIFARE is a trademark of NXP Semiconductors.
- MS, Microsoft, Windows, Windows NT, MS-DOS are the trademarks or the brand names of Microsoft Corporation in the U.S. and other countries. Other company names and product names in this manual are the trademarks or the brand names of their respective companies.
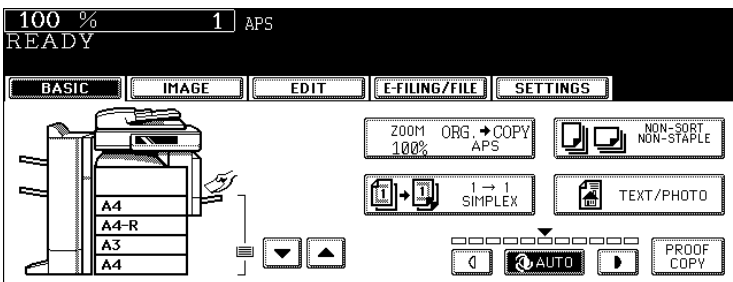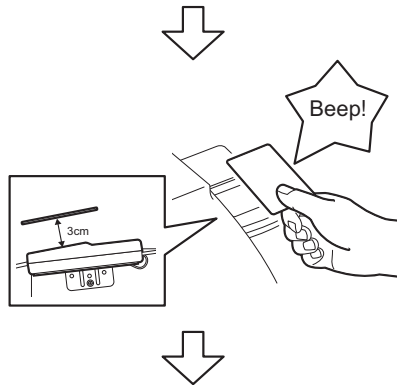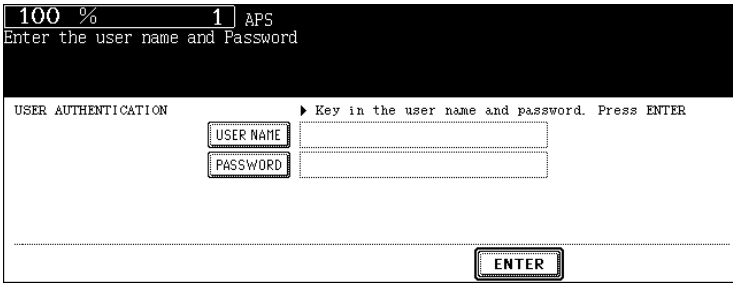
Copyright

HOW TO USE THE E-BRIDGE ID GATE

Put an IC card close to the e-BRIDGE ID Gate. When authentication succeeds, a "beep" sound is heard. The Toshiba Multifunctional Digital System is now ready for use.

⚠ CAUTION

Never leave an IC card or put a cloth or the like over the e-BRIDGE ID Gate.
If you do so, the e-BRIDGE ID Gate could heat up and cause a low temperature burn injury.

- Even if the authentication succeeds and the Toshiba Multifunctional Digital System is usable, you may not utilize some features such as forwarding scanned data if a shared folder on a network is protected with a password. In this case, you can enable this feature by registering the scanned data as a template. For details, see "Using Template" in the Scanning Guide.
- If you have set to "Require PIN Code" when the IC card is authenticated, enter the PIN code with the digital keys in the entry screen, which appears after you have put the IC card close to the e-BRIDGE ID Gate. (This is required only for models which support the PIN code entry.)
  For details of the PIN code entry, see 🕮 P.15 "Requiring PIN Code", and for the PIN code setting, refer to the TopAccess Guide.

PRELIMINARY SETTINGS

The settings below are necessary before you start using the e-BRIDGE ID Gate. These settings require the network administrator's privilege, LDAP server configuration and knowledge about identification information in an IC card.

Configuring an LDAP Server

When the IC card has not been authenticated by an LDAP server

Register the schemata below into an LDAP server.

OID:	1.3.6.1.4.1.1129.2.100.2.1[*1]
Attribute Name:	eBMUserCard[*2]
Attribute Type/Syntax:	Set the character code, such as Unicode string or Case Insensitive string, etc., according to the environment you are working in.
Max (Maximum attribute length):	256 bytes (Used only for 16 bytes)

*1   Toshiba-specific OID
*2   The card information needs to be entered in the eBMUserCard attribute for each user.

The unique card information needs to be registered in this attribute for each user.

When the IC card is already authenticated by an LDAP server

Let your service technician know the attribute name provided for the IC card authentication. It is required for settings of the Toshiba Multifunctional Digital System.
The attribute name of the card can be set from the TopAccess depending on the model in use. For details, contact your service technician.

Enabling User Authentication for the Toshiba Multifunctional Digital System

Enable user authentication on the TopAccess.

- This procedure is not required if user authentication is already enabled.
- If you use Windows Domain Authentication or LDAP Authentication, the domain registered first will be adopted.

Installing and Setting e-BRIDGE ID Gate

A qualified Toshiba service technician must install the e-BRIDGE ID Gate. The service technician then goes on to the settings of the Toshiba Multifunctional Digital System.

Note

Do not disconnect the e-BRIDGE ID Gate cable from the equipment. If so, the e-BRIDGE ID Gate may not operate properly.

Tip

If IC card authentication is enabled and the UID is used as an authentication ID, proceed to 📖 P.14 "Specifying LDAP Server for Authentication".

Entering the authentication ID

If IC card authentication is enabled and user information is used as the authentication ID, enter the user information stored in the card.
If you need to change the authentication ID, contact your service technician.

Entering the Key Information and Sector Number

Enter the Key Information (4-digit) and Sector Number (4-digit hexadecimal numbers). The codes must be entered twice. The entry will be completed when the first entry and the second entry match.
- At this step the information must be entered by the user for security reasons.
- Use the touch panel to enter letters of the alphabet and use the digital keys to enter digits.

Enter letters of the alphabet here

Enter digits with the digital keys
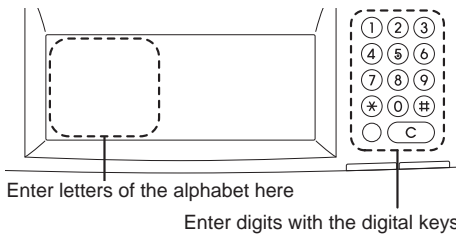
E.g.: When using Sector Number 27:
Key A: 0000001B
Key B: 0001001B

Convert the Sector Number from a decimal to a hexadecimal number according to the following table.


Sector Number

| 0 | 0 | 1 | B |

Ones place

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2	32	33	34	35	36	37	38	39								

Tens place

When using user information as an authentication ID

1 Enter both the Key Information and Sector Number consecutively. After entering them, press the [Enter] button on the touch panel.
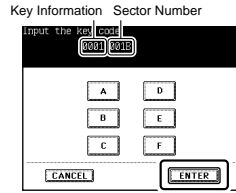
Key Information Sector Number

2 Enter them again. After entering them, press the [Enter] button on the touch panel.
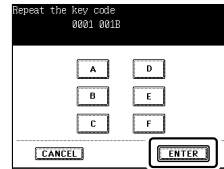
3 Confirm that the entry screen has disappeared. Then let your service technician know.

Entering Data Area Address Information of Authentication ID

Enter the beginning and ending bytes of each area which stores user information to be used as an authentication ID. Up to two areas can be specified.

Enter them using the touch panel and the digital keys, in the same manner as for entering the Key Information and Sector Number.

This information must be entered twice. The entry will be completed when the first entry and the second entry match.

- This procedure is not required if you use IDm as an authentication ID.
- This information must be entered by the user for security reasons.


< Example >

When using the employee's ID number (8 digits) and abbreviated department name (4 letters of the alphabet) of the user are combined for an authentication ID

- Specify the positions of character strings for an authentication ID.
  E.g.: "02106019ebig" stored in sector is used as an authentication ID.
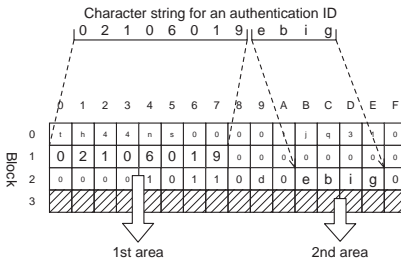
- Convert the block, beginning and ending bytes in each area into hexadecimal numbers.
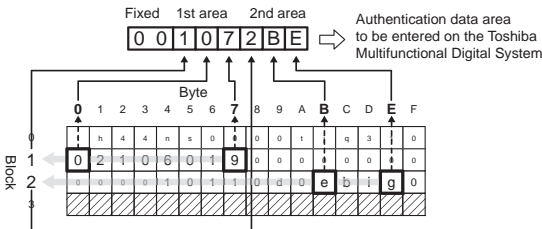

Note

Needs to be done within 16 bytes including 1st area and 2nd area.

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1 **If you combine character strings stored separately in two areas, enter the beginning and ending bytes of both areas consecutively. After entering them, press the [Enter] button on the touch panel.**

If only one area is used, enter "FFF" instead of the beginning and ending bytes of the 2nd area.
E.g.: 00107FFF
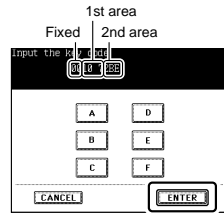
2 **Enter them again. After entering them, press the [Enter] button on the touch panel.**
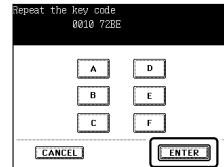
3 **Confirm that the entry screen has disappeared. Then let your service technician know.**

Entering the security key

Enter the security key (12-digit hexadecimal number). Enter the value corresponding to the Key Information (Key A or Key B) entered in 📖 P.10 "Entering the Key Information and Sector Number" using the touch panel and the digital keys.
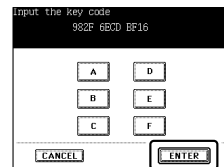The key must be entered twice. The entry will be completed when the first entry and the second entry match.
• This information must be entered by the user for security reasons.
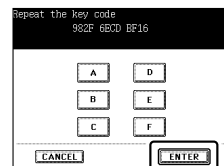
E.g.:
The security key of Key B: 00 00 98 2F 6E CD BF 16

1 **Enter the security key. After entering it, press the [Enter] button on the touch panel.**

2 **Enter it again. After entering it, press the [Enter] button on the touch panel.**

3 Confirm that the entry screen has disappeared. Then let your service technician know.

Specifying LDAP Server for Authentication

Specify an LDAP server for authentication on the TopAccess menu to enable the e-BRIDGE ID Gate.
For details of the operations in TopAccess, refer to the TopAccess Guide.

■ **Models in which "Login" is displayed on the top right-hand of the TopAccess screen**
(Accessing TopAccess with [User Authentication Setting] disabled)

(Login) -> [Administration] tab -> [Security] menu -> [Authentication] submenu -> [User Authentication Setting]
Select [LDAP Authentication] or [Windows Domain Authentication] in the [Authentication Type], and then specify the LDAP server for card authentication in the [Card Authentication Setting].

■ **Models in which "Login" is not displayed on the top right-hand of the TopAccess screen**

[User Management] tab -> [Authentication] menu -> (Login) -> [User Management Setting] menu
Select [LDAP Authentication] or [Windows Domain Authentication] in the [User Authentication], and then specify the LDAP server for card authentication in the [Card Authentication Setting] *1.

*1 Continue clicking [Next] on the [User Management Setting] menu until the [Card Authentication Setting] appears.

- When [Attribute type of "Card Information"] is in the LDAP server list displayed in [Card Authentication], the attribute name can be changed. The attribute name of the card can be set by every LDAP server, so change it as required.
- If [Windows Server] is selected as an LDAP server for the PIN code or IC card authentication with [Create User Information Automatically] enabled, the following attribute type of user name is used.
  - If Kerberos is selected to access the LDAP server: sAMAccountName
  - If Digest-MD5, CRAM-MD5, Login, Plain or Simple Bind is selected to access the LDAP server: displayName
- When there is the [Use cache information when user authentication failed] setting in your Toshiba Multifunctional Digital System, you can enter the card information of the user selected with the [Register Local User which is available in Windows Domain Authentication/ LDAP Authentication] check box from the TopAccess. Enter the authentication ID in [Card Information] on the [Create User Information] screen.

Requiring PIN Code

You can increase the security level by entering a PIN code when the IC card is authenticated (only for models which support the PIN code entry). Select the [Require PIN Code] check box in [Card Authentication Setting] on [User Authentication Setting]. (Set "Enabled" for [PIN Code Authentication] in [PIN Code Authentication Setting] on [User Authentication Setting] in advance.)

DAILY INSPECTION

When cleaning the e-BRIDGE ID Gate, wipe it lightly with a piece of soft cloth soaked with water or detergent.
Do not use solvents such as thinner or benzene. This could warp the shape of the surface or leave it discolored.

SIMPLE TROUBLESHOOTING

The e-BRIDGE ID Gate does not beep when an IC card is brought close to it, or the screen of the Toshiba Multifunctional Digital System is not switched. The equipment does not recover from the energy save mode even if an IC card is brought close to the e-BRIDGE ID Gate.

- Is the cable of the e-BRIDGE ID Gate disconnected from the equipment?
  - If so, shut down the equipment, connect it with the cable and then turn the power ON.

- Is the card authentication setting enabled?
  - Check it from the TopAccess.

- Is the IC card authentication server set to an LDAP server?
  - Check it from the TopAccess.

- Is the LDAP server configuration correct?

- Is the IC card close enough to the e-BRIDGE ID Gate?
  - If the IC card and the e-BRIDGE ID Gate are separated by 3 cm or more, the e-BRIDGE ID Gate may not detect the IC card.

- Is the period the IC card is put close to the e-BRIDGE ID Gate long enough?

- Is the IC card a usable one?
  - Check with another IC card.

The e-BRIDGE ID Gate beeps three times consecutively (one short beep and immediately a set of short and long beeps) and an error message appears on the touch panel.

- "Failed Authentication"
  - This message appears when the LAN cable is not connected. Check the LAN cable connection.

The e-BRIDGE ID Gate beeps three times (one short beep, a short period and then a set of short and long beeps) and an error message appears on the touch panel.

- "Failed Authentication"
  - This message appears when the IC card owner is not registered in the LDAP server as a user, or more than one user is registered with the same authentication ID. Check the registered contents.

Even if the e-BRIDGE ID Gate beeps three times (one short beep, a short period and then a set of short and long beeps), the screen of the equipment is not switched.

- LDAP authentication failed.
  - Check the LDAP server settings.

If all of the above have been checked but the e-BRIDGE ID Gate still cannot detect the IC card, contact your service technician.

Specifications

Model name:	KP-2005
Dimensions:	(W) 70 x (D) 130 x (H) 29 (mm)
Data transfer method:	USB communication
Operating environment:	Temperature – 10-30°C, Humidity - 20-85% (No condensation)
Operating voltage:	5 V
Consumption current:	200 mA (max.)

Operator's Manual

e-BRIDGE ID Gate
KP-2005

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QUALITY SERVICE