

# ELECOM

## Multi-device Bluetooth® Keyboard

### TK-MBD041 series

## Detailed Supplementary Manual

Thank you for purchasing the ELECOM TK-MBD041 series Multi-device Bluetooth® Keyboard.

The "TK-MBD041" series is a wireless keyboard compatible with Bluetooth® wireless technology. This series can also be used as a Bluetooth® hands-free phone.

This manual describes the operating instructions and safety precautions for using the "TK-MBD041" series.

Ensure that you have read this manual before using this product. After reading this manual, store it somewhere safe for future reference.



\* Except in certain cases, the "TK-MBD041" series is referred to as "this product" in this manual.





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## Safety Precautions







### ■ Meaning of symbols






	<b>WARNING</b>	Failure to observe precautions carries the possibility of serious personal injury or death due to fire, electric shock, or other causes.
	<b>CAUTION</b>	Failure to observe precautions may result in personal injury due to electric shock or other causes, and may damage other equipment.



-  Prohibited action
-  Mandatory action
-  Situation that needs attention
-  Notes and reference information

Observe these precautions carefully to avoid personal injury, damage, fire, and other problems.

 <b>DANGER</b>	
	<b>Use the included charging cable and follow our specified charging conditions.</b> If this product is charged using another charging cable or under different conditions, the charging battery may generate heat, leak, or burst.
	<b>Do not attempt to disassemble, modify, or repair this product.</b> Doing so may cause a fire, electric shock, or product damage. It may also void the warranty.
	<b>Do not use this product if it leaks.</b> Do not use this product when the internal battery has leaked. Doing so may produce heat or destroy the product.
	<b>If you notice a problem with this product, stop using it.</b> If you notice leaking, a change in color or shape, or anything else that is different than before, stop using this product. Continued use may produce heat or cause a rupture.
	<b>If fluid leaking from this product gets on your body or clothes, wash it off with clean water.</b> If the fluid in the internal battery gets on your skin or clothes, there is a risk of skin damage.
	<b>If the fluid in the internal battery gets in your eyes, there is a risk of a loss of eyesight. Wash your eyes completely with clean water without rubbing them and immediately seek medical attention.</b>
	<b>Do not connect or disconnect this product when your hands are wet.</b> Doing so may cause an electric shock or injury.
	<b>Use this product under the specified voltage.</b> Otherwise, heat generation, ignition, electric shock, or injury may occur.


 <b>WARNING</b>	
	If a foreign object (water, metal chip, etc.) enters this product, immediately stop using the product. If you continue to use the product under these conditions, it may cause a fire or electric shock.
	If an abnormality is found with this product (emission of heat, smoke or abnormal smell from the product), immediately stop using the product, shut down the computer, and after thoroughly checking that heat from the product will not cause burns. After doing this, contact the retailer from whom you purchased the product. If you continue to use the product under these conditions, it may cause a fire or electric shock.
	Do not drop or hit this product. If this product is damaged, immediately stop using the product. After doing this, contact the retailer from whom you purchased the product. If you continue to use this product in a damaged condition, it may cause a fire or electric shock.
	Do not put this product in fire, as the product may burst, resulting in a fire or injury.
	Do not operate this product while driving a car. Stop using the product while walking, on train platforms, at intersections, and at construction sites, and carefully check your surroundings.

 <b>WARNING</b>	
	Do not leave this product inside a car for a long period of time under high temperatures. Doing so may cause the internal battery to burst, ignite, or break.
 <b>CAUTION</b>	
	Do not place this product in any of the following environments: <ul style="list-style-type: none"><li>• In a car exposed to sunlight or a place exposed to direct sunlight</li><li>• In a place that becomes hot (around a heater, etc.)</li><li>• In a moist place or a place where condensation may occur</li><li>• In an uneven place or a place exposed to vibration</li><li>• In a place where a magnetic field is generated (near a magnet, etc.)</li><li>• In a dusty place</li></ul>
	This product does not have a waterproof structure. Use and store this product in a place where the product body will not be splashed with water or other liquid. Rain, water mist, juice, coffee, steam or sweat may also cause product damage.

-  Do not use this product with any device that may have a serious impact in the event this product fails.
-  When you no longer need to use this product, be sure to dispose of it in accordance with the local ordinances and laws of your area.

### ■ Cleaning the Keyboard



If this product becomes dirty, wipe it with a soft, dry cloth.

-  Use of a volatile liquid (paint thinner, benzene, alcohol, etc.) may affect the material quality and colour of this product.

## Cautions for Wireless Equipment

This product is wireless equipment using the entire range of the 2.4 GHz band and it is possible to avoid the band of mobile object identification systems. GFSK is used for the radio wave method. The interference distance is 10 m. The 2.4 GHz band is also used by medical equipment and wireless LAN equipment conforming to the IEEE802.11b/11g/11n standard.

- Before using this product, check that there are no other "radio stations" operating nearby.
- If electromagnetic interference occurs between this product and other "radio stations", move this product to another location or stop using this product.
- \* Other "radio stations" refer to industrial, scientific and medical devices using the 2.4 GHz band like this product, other radio stations of this type, licensed radio station premises for a mobile object identification system that is used in factory production lines, certain non-licensed low power radio stations, and amateur radio stations.

 <b>WARNING</b>	
	<ul style="list-style-type: none"><li>• Do not use this product with any device that may have a serious impact in the event of a malfunction. There are rare cases in which an external radio wave at the same frequency or the radio wave emitted from a mobile phone causes this product to malfunction, slow down, or fail to operate.</li><li>• Do not use this product in a hospital or other locations where the use of radio waves is prohibited. The radio waves of this product may affect electronic and medical devices (e.g. pacemaker).</li><li>• The use of a wireless keyboard in an aircraft is prohibited by aviation law because doing so may interfere with flight safety. Turn off the keyboard before boarding an aircraft and do not use it in the aircraft.</li><li>* ELECOM is not liable for any accident or social damage incurred due to the failure of this product.</li></ul>

## Package Contents

This product's packaging contains the items listed below. Before using the product, check that all items are present. We make every effort to ensure that all products are packaged correctly. However, in the event that an item is missing or damaged, contact the retailer from whom you purchased the product.

- Keyboard x1
- USB charging cable [USB A ⇄ micro B (0.1 m)] x1
- User's Manual (Printed manual supplied with product) x1

## Part Names

### Lock

Press and hold this for approx. 3 seconds to lock this product and disable key operations. To unlock, press and hold this for approx. 3 seconds again.



It is possible to answer a received call while this product is locked.

### Organic EL display

- Shows information such as remaining battery level, pairing mode status, connected device's number, caller's number, and volume.

### LED lamp

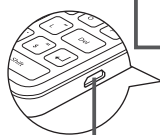
- Lights red when charging.
- Turns blue when charging is complete.
- Flashes red when the remaining internal battery level becomes low during use.
- Flashes blue when the keyboard is in a pairing standby state.
- Flashes blue every 1 second in power saving mode.

### 3.5 mm-dia earphone jack

Insert the 3.5 mm-dia stereo mini plug of your earphones.



- This product does not include 3.5 mm-dia stereo earphones.
- Even when an earphone is used, the microphone function cannot be used. Use the microphone on the keyboard instead.



### Charging connector

### key (Function key)

- In keyboard mode, switches between alphabet mode and number mode .
- The lower letter on each text input key is entered in mode and the upper one in mode.

### Numerical keys

Uses to enter a phone number in hands-free mode.

### Call receiving/placing key

- Press this to answer a received call.
- Switches to hands-free mode.
- In hands-free mode, places a call when pressed after a phone number is entered.
- In hands-free mode, displays the outgoing call history when pressed and held.

### Hanging up/power key

- Press and hold this for approx. 3 seconds to power ON/OFF.
- In hands-free mode, hangs up the call.

### Space key

- In keyboard mode, inserts a space.
- In keyboard mode, converts characters when using two-byte characters.
- In music mode, pauses or plays the music.

### Pairing

Changes to pairing mode when pressed together with the key.

### Vibration ON/OFF key

Press and hold this to enter vibration mode. Returns to normal mode when pressed and held while in vibration mode.

### Speaker

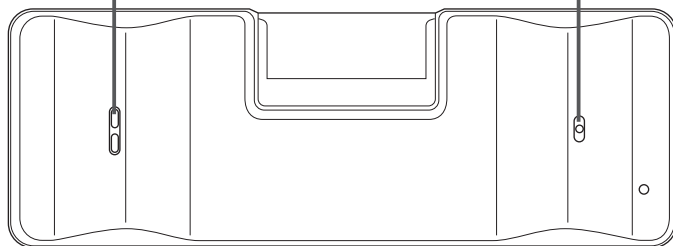
Speaker for conversation during connection in hands-free mode



You cannot hear sound in music mode.

### Microphone

Microphone for conversation during connection in hands-free mode



## Before the product can be used

Before using for the first time, this product and the connected device need to be operated and set in the following order:

### 1 Charging

Charging is required before using this product for the first time. Refer to "Charging the Keyboard" for detailed instructions.

### 2 Turning ON

Press the  key for approx. 3 seconds to power ON.



Press and hold for 3 seconds.

### 3 Pairing (See p.5 and later)

Press the  and  keys together for pairing.



For detailed instructions on the pairing procedure, refer to "Pairing the Keyboard with a Connected Device" (→ page 5).

### 4 Using the keyboard

## Charging the Keyboard

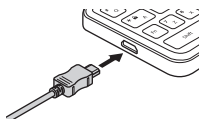
Be sure to charge this product when using it for the first time or after a long period of non-use.

Use the included USB charging cable for charging.



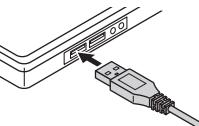
- It takes about 3 hours to fully charge this product. If the charging indicator lamp does not turn off after 3 hours, immediately disconnect the USB charging cable and stop charging. Charging for more than 3 hours can shorten the battery life and may lead to device failure.
- When charging from a wall outlet, use a separately-sold ELECOM USB AC adapter.

- 1 Connect the USB [microB] connector of the included USB charging cable to the charging connector of this product.**



- 2 Connect the [USB-A] connector of the USB charging cable to a USB port on your PC.**

Or, use a USB AC adapter to charge from a wall outlet.



Carefully check the connector orientation and where to insert.

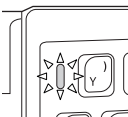
- 3 Turn on the PC, if not on already.**



The battery symbol on the LCD display changes to indicate charging.

The LED lamp lights red and charging starts.

The lamp lights blue when charging is completed.




Stop charging even if it does not indicate charging is completed after the specified charging time. Otherwise, battery leakage, heat generation, burst, or ignition may occur.

## Turning ON/OFF

### □ Turning ON

Turn on the keyboard to use it.

- 1 Press and hold the  button for approx. 3 seconds.**

The LCD display is turned on.

ELECOM



- 2 This product searches for a device that is already paired with it and connects automatically, if connectable.**

Connecting...

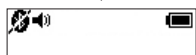


Connecting...



The keyboard enters standby mode if no connectable device is found.

Connect Fail




### About power saving mode

If this product has not been operated for approx. 30 seconds, it automatically switches to power saving mode and the LED lamp flashes blue every 1 second. It returns to normal mode if any key is pressed.

### □ Turning OFF

When not using this product, turn the keyboard off to save battery power.

- 1 Press and hold the  button for approx. 3 seconds.**

The LCD display is turned off.

Power Off



## Pairing the Keyboard with a Connected Device

To connect this product to a connected device using Bluetooth®, you need to pair the product with the connected device.

- Pairing involves registering Bluetooth® devices with each other, and authorizing a connection with a registered device.
- To use Bluetooth® functions, the connected device must support the profile used by this product.

Note, however, that some functions may not be available depending on the Bluetooth® device specifications even if the same profile is supported.

## Using iPhone/iPad/iPod touch

- \* The instructions below are based on the iPhone 4 (iOS 5.1) user interface. The procedure is the same for other models.
- \* When using the iPhone 3GS or 3G iPod touch, you must update the software to iOS 4.0 or later.  
For instructions on updating the software, refer to the iPhone 3GS or 3G iPod touch manual.
- \* This product cannot be used with the iPhone 3G or with the first and second generation iPod touch.

### 5 Touch [ELECOM TK-MBD041 Not Paired].



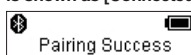
If iPhone 3GS or iPod touch cannot find the keyboard, check that the software has been updated to iOS 4.0 or later.



### 6 Product connection starts.



### 7 Pairing is completed successfully when [ELECOM TK-MBD041] is shown as [Connected].



[Pairing Success] is displayed in the message field on the LCD display of the keyboard.



You can now use this product.

### 1 Touch [Settings].



### 2 Touch [General].



### 3 Touch [Bluetooth].

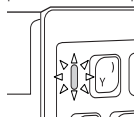


### 4 While the device is searching for other devices, press the [M] and [S] keys together to enter pairing mode.



[Pairing] is displayed in the message field on the LCD display of the keyboard.

The LED lamp flashes blue during the pairing procedure and turns off when the procedure is complete (step 7).

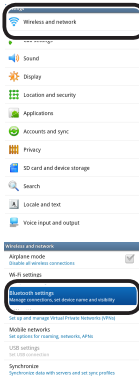


# Using GALAXY Tab

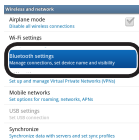
- 1 On the home screen, press the [Menu] key and tap [Settings].



- 2 Tap [Wireless and network].

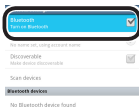


- 3 Tap [Bluetooth settings].



- 4 Confirm that [Bluetooth] is checked and enabled.

If not, tap it to enable it.



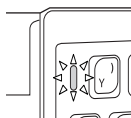
- 5 Tap [Scan devices].



- 6 While the device is searching for other devices, press the [M] and [P] keys together to enter pairing mode.



[Pairing] is displayed in the message field on the LCD display of the keyboard. The LED lamp flashes blue during the pairing procedure and turns off when the procedure is complete (step 7).



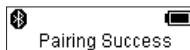
- 7 Tap [ELECOM TK-MBD041].



When a pop-up menu appears, tap [Approve].



- 8 Pairing is completed successfully when [ELECOM TK-MBD041] is shown as [Connected to phone and media audio].



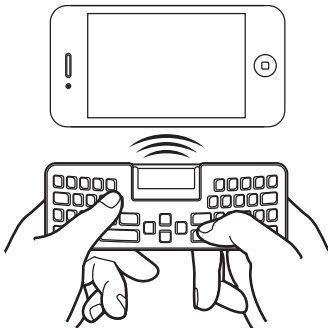
[Pairing Success] is displayed in the message field on the LCD display of the keyboard.



You can now use this product.

# Using the Keyboard

Text can be entered through this keyboard.



## Operation in keyboard mode

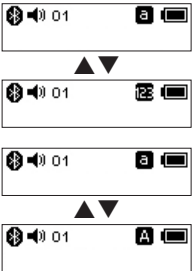
The keyboard automatically enters keyboard mode when a text key is pressed while text input is allowed.

### ■ Switching input text

Alphabet mode and number mode are switched every time is pressed during text input in keyboard mode.

The lower letter on each text input key is entered in alphabet mode and the upper one in number mode .

In alphabet mode , lower and upper cases are switched every time is pressed.



### ■ Switching text input modes

Text input modes can be switched for iPad/iPhone/iPod touch.

Text input modes are switched every time and are pressed during text input in keyboard mode.



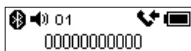
## Function list

Mode	Function	Key operation
Common to all modes	Power ON	When the power is OFF, press and hold  for approx. 3 seconds.
	Power OFF	When the power is ON, press and hold  for approx. 3 seconds.
	Pairing mode	Press  and  together.
	Key lock	Press and hold  for approx. 3 seconds.
Keyboard mode	Switch input text	Press  in keyboard mode.
	Switch text input modes.	Press  and  (only for iPad/iPhone/iPod touch).
Hands-free mode	Receive a call.	Press  once when a call is received.
	Hang up the call.	Press  once during the conversation.
	Place a call.	When the power is ON, enter a number using numerical keys and press  once.
	Enter vibration mode.	Press and hold  for approx. 3 seconds.
Music mode	Volume up	Press  and  together while in music mode.
	Volume down	Press  and  together while in music mode.
	Skip forward	Press  and  together while in music mode.
	Skip reverse	Press  and  together while in music mode.
	Play/Pause	Press  and  together while in music mode.

# Placing/Receiving a Call

## Receiving a call

- 1 Press  when a call is received.

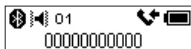


The phone number of the caller is displayed on the LCD display (if the caller enables the caller ID display).



### How to detect a call

- Detectable with an incoming call ringing from your mobile phone or smartphone.
- You hear an incoming call ringing while listening to sound through stereo earphones in music mode.
- This product vibrates when set to vibration mode.



- 2 Have a conversation on this product.

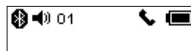


- 3 Press  when the conversation is over.

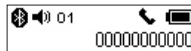





## Placing a call

- 1 Press  to enter hands-free mode.



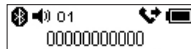
- 2 Enter a phone number using the numerical keys.



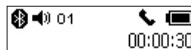
You cannot enter a phone number while in alpha-bet mode . Press  to enter number mode  before entering a phone number.

- 3 Press .

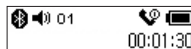
A call is placed from the connected device.




- 4 After the recipient answers the call, have a conversation on this product.





- 5 Press  when the conversation is over.

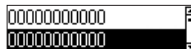


## Placing a call using the incoming/outgoing call history

- 1 Press  twice consecutively. Numbers are displayed in the incoming/outgoing call list.

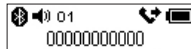


- 2 Select the number to call using  .

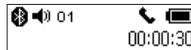


- 3 Press .

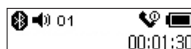
A call is placed from the connected device.



- 4 After the recipient answers the call, have a conversation on this product.



- 5 Press  when the conversation is over.

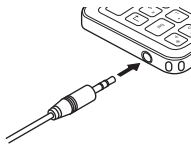




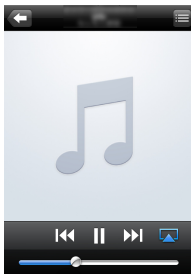
# Listening to Music

## Listening to Music

- 1 Connect a 3.5 mm-dia ear-phone to the 3.5 mm-dia ear-phone jack of this product.



- 2 Play music on the connected device.



- 3 Listen to music on this product.



## Operation while playing music

### Adjusting the volume

- 1 While playing media such as music, press **SHIFT** and **F2** to increase the volume.



To decrease the volume, press **SHIFT** and **F1**.



### Playing/pausing

- 1 While playing media such as music, press **SHIFT** and **SPACE** to pause.



To start playing, press **SHIFT** and **SPACE** again.



### Skipping forward/reverse

- 1 While playing media such as music, press **SHIFT** and **F3** to skip to the next track.



To skip back to the previous track, press **SHIFT** and **F4**.



### If the keyboard does not operate normally

#### ■ When text cannot be entered or keyboard does not work/is unstable

- Check that this product and the connected device's Bluetooth® function or Bluetooth® adapter are turned on.
- Check pairing status to ensure that this product is paired correctly with the connected device and that pairing has not been cancelled.

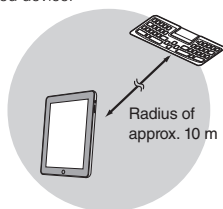


The LED lamp flashes blue during the pairing procedure and turns off when the procedure is complete.

- The connected device and the keyboard are too far apart or there is a possibility that the connected device is facing in a direction from which it cannot receive radio signals.

Adjust the position of the connected device.

The operable range of this product is the area within a circle with a radius of 10 m from the connected device. Depending on the usage environment, the keyboard may not operate even when it is within approximately 10 m of the connected device. In such cases, move the keyboard closer to the connected device until operation stabilizes.



- When using this product on a metallic surface such as a steel desk, radio wave outreach may be shortened. In such cases, move the keyboard closer to the connected device until keyboard operation stabilizes.
- Interference may occur if multiple units of this product are used together or if this product is used with other wireless devices. In this case, change the channel of other wireless devices.
- Operation becomes unstable when internal battery power is low. Refer to "Charging the Keyboard" (page 4), and charge the batteries.
  - When the internal battery power is low, the LED lamp flashes red.

\* When not using the keyboard, turn the power off to save battery power.

### Problems while using a smartphone

#### ■ The phone immediately goes to voice mail when an incoming call is received.

- If the phone is set to go to voicemail after a short time, the voicemail will kick in before the call is forwarded to this product. If this occurs, set your phone to wait for a longer time before a call goes to voicemail service.

#### ■ This product does not work when placing a call.

- After placing a call from your smartphone, it may be necessary to switch operation from this product to the Bluetooth® receiver.

Please refer to the manual of your smartphone for information on how to operate.

[Basic operation]

For iPhone 4 ⇒ After the call, change the sound output setting to this product.

For Android ⇒ After the call, press the Menu button and then the Bluetooth button.

### Problems while playing AV

#### ■ Cannot hear the sound of audio files.

- Bluetooth® audio playback does not support certain web content and file types. Contact the site from which you downloaded the audio file.

#### ■ Cannot hear any audio on movies/video.

- Depending on your device specifications, Bluetooth® may not support audio playback of downloaded promotional videos, etc.

### Problems with the internal battery

#### ■ The LED lamp does not turn on when charging.

- Start your PC if it is not already running.
- If your PC is in standby mode, exit this mode.
- The power from the PC's USB ports may be insufficient. Try to remove a device connected to another USB port.

#### ■ It takes longer to charge than the specified time.

- This product may not charge properly in extremely hot or cold locations. Charge it in a place that is between 5 and 40°C.

#### ■ The internal battery does not last long.

- Replace the internal battery if the available time becomes shorter even after it is fully charged.

## Basic Specifications

Product name	Multi-device Bluetooth® Keyboard
Article No.	TK-MBD041 series
Supported devices	<ul style="list-style-type: none"> <li>• iPad2, iPad, iPhone 4S, iPhone 4, 4G iPod touch</li> <li>• iPhone 3GS and 3G iPod touch (32GB/64GB) with software updated to iOS 4.0 or later</li> <li>* Cannot be used with the iPhone 3G or the first and second generation iPod touch.</li> <li>* The conversation function cannot be used with the iPad and iPhone.</li> <li>• Bluetooth® HID profile/A2DP/AVRCP/HFP-compatible Android terminal</li> </ul>
Connection method	Bluetooth® wireless
Compliant standard	Bluetooth® 2.1+EDR Class2
Profile	HID (Human Interface Device) A2DP (Advanced Audio Distribution Profile) AVRCP (Audio/Video Remote Control Profile) HFP (Hands-Free Profile) * This product is compatible with Bluetooth®'s copy-right protection function (SCMS-T), and is compatible with music playback from mobile phones that use that function. However, in the case of some mobile phones, you may not be able to switch the audio output to wireless. Please take these mobile phone specifications into consideration.
Radio frequency	2.4 GHz bandwidth
Radio wave method	GFSK modulation
Radio wave outreach	Non-magnetic substance (e.g. wooden desk): Approx. 10 m Magnetic substance (e.g. metal desk): Approx. 3 m * Values indicated are those obtained by ELECOM and are not guaranteed.
No. of keys	42
Key type	Button
Key pitch	7.5 mm
Key stroke	0.8 mm
Dimensions	W141.0 mm × D53.0 mm × H13.0 mm
Operating temperature/humidity	5 to 40°C, 90% RH max. (no condensation)
Storing temperature/humidity	-10 to 60°C, 90% RH max. (no condensation)
Batteries	Rechargeable lithium ion battery (built-in)
Battery capacity	600 mAh
Maximum charge count	Approx. 300 times
Charging time	Approx. 3 hrs.
Operating time	Approx. 3 days (when used after being fully charged) * The value indicated is that obtained by ELECOM and is not guaranteed. The time was calculated based on this product being used for conversation for 2 hours a day.

## Limitation of Liability

- ELECOM Co., Ltd. shall be held in no way liable for any compensation for special damages, consequential damages, indirect damages, punitive damages, or lost profit arising out of the use of this product.
- ELECOM Co., Ltd. makes no guarantees concerning the loss of data, errors, or any other problems that may occur on devices connected to this product.

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**Multi-device Bluetooth® Keyboard**  
**TK-MBD041 series**  
**Detailed Supplementary Manual**  
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