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# **Dongguan Togran Electronics Technology Co.,LTD** File Name Scissor Keyboard **Department R&D Edit**

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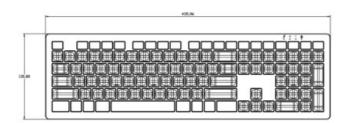
# **Revision History**

Date	ver sio n	page	Revise	ed page	Descriptio	on		
2024-1 1-05	A0				Start of th	e docume	nt, first rel	ease
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### Introduction

This document contains a functional and performance specification of the Wireless slim Keyboard. BT5.0 compatible with Win XP, Win Vista, Win7, Win8, Win8.1, Win10, Win11 and other operating systems.

Transmitter:





## **Physical Specification**

Dimension

**Transmitter** 

Height: 16.0±0.5mm

Length: 436.0±0.5mm

Width: 130.0±0.5mm

• Weight: approx. 540± 50g.

#### **Mechanical Characteristics**

### 3.1 Keyboard color

- Top case to gran black (According to customer requirements)
- Bottom case to gran black (According to customer requirements)
- Kepcap1# to gran black(According to customer requirements)
- Kepcap2# to gran gray (According to customer requirements)
- LED lens transparency clear
- Legend printing Pantone white/305C for Fn + key
- LED indicator icon Pantone 403C

### 3.2 Key switch

Operating force of Keys: 65±15 gf

- Tolal travel 1.5±0.3 mm
- Click ratio >40%
- Bounce 5ms

## 3.3 Keyboard material

- Top case ABS or HIPS
- Bottom case ABS or HIPS
- Kepcap1# ABS
- Kepcap2# ABS
- LED lens transparency PC
- Mid-board transparency PC
- Scissors POM
- Rubber dome Silicone
- Foot (turn) ABS+TPE
- Foot Silicone

## **Radio Characteristics:**

#### 4.1 Transmitter

- Rating: 5V 500mA (with DC 3.7V, 500mAh battery inside)
- Frequency 2.402~2.48 GHz.
- Working channel:40channel
- Power consume: Key working <10mA; Suspend I <0.1mA; Suspend II <0.02mA</li>
- Working distance: >10Metre

# **Important Components**

• Transmitter: IC: EP2T42F40E (TLSR8373C)

#### **Environment**

## **6.1 Operating Temperature and Humidity**

Temperature: -5°C to 45°C

Humidity: 85% RH or less

## 6.2 Storage Temperature and Humidity

Temperature: -15°C to 65°C

Humidity: 85% RH or less

# **Reliability Specifications**

## 7.1 Key Life Test

Switching speed: 30 cycles/min.

Operating force of Key: 65gf

Operating cycles: 5,000,000 cycles

Judging Criteria: No functional defect should be found for the switch actuation.

7.2 High Temperature Test

Temperature: 60±2°C

Storage time: 96 hours.

After this test the mouse shall be left in room temperature for 1 hour.

Judging Criteria: No functional defect should be found.

## 7.3 Low Temperature Test

Temperature: -15±2°C

Storage time: 96 hours

After this test the mouse shall be left in room temperature for 1 hour.

Judging Criteria: No functional defect should be found.

#### 7.4 Moisture Test

Temperature: 40±2°C

Humidity: 90~95% R.H. Storage time: 96 hours.

After this test the mouse shall be left in room temperature for 1 hour.

Judging Criteria: No functional defect should be found.

## 7.5 Heat Cycle Test

Temperature: -15±2°C for 1 hour and then 60±2°C for 1 hour

Storage time: 5 cycles.

After this test the mouse shall be left in room temperature for 1 hour.

Judging Criteria: No functional defect should be found.

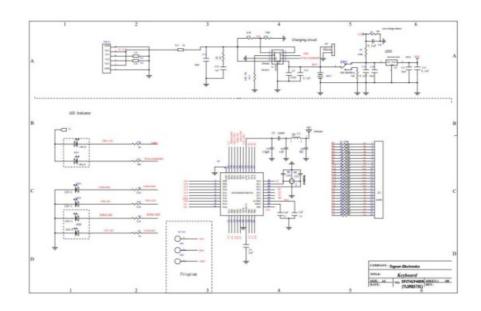
# **Agency Certifications**

FCC CLASS B PART15

CE

# **Schematic**

## **Transmitter:**



# **Application Matrix.**

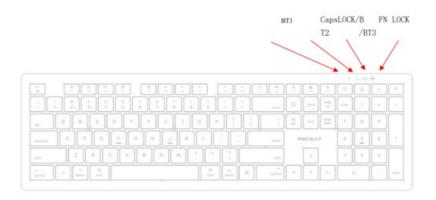
	R0 P20	R1 P2	R2 P22	R3 P23	R4 P 24	R5 P2	R6 P2	R7 P2 7
C 0 P 15	Z	1(!)	POWER	Prev Tra ck	Alt-R WIN- R	Next Track	Sleep	WAKE UP
C 1 P 35	С	3(#)	€	Volume+	Volu me-	WW W refr esh	Ctrl-R	WWW favorit e

C 2 P 36	V	5%	F5 (Pre T rack)	WWW b	Alt-L	WW W For ward	WWW	WWW search
C 3 P 37	ENTER	6^	F6 (Next Track)			Shift- L		G
C 4 P 00	F	F3 (VO L+)	PAUSE	М			Ctrl-L	MAIL
C 5 P 01	K56	4(\$)	SPACE	Win-L	WW W Ho me	131	132	<del>133-</del> AL T_R
C 6	K14	F4	A	Calculat		K150	K151	WIN_ R
P 02		(MUTE)						
C 7 P 03	F7 (Play/P ause)	`(~)	S	Y	Р	7(&)	В	
C 8 P 11	F8 (Stop)		Tab	U	[{	8*	Н	N

C 9 P 14	F9 (www Web)	=+	D	I	]}	9(	» «	FN
C 10 P 12	F11 (My C omputer)	F1 ( Me dia )	W	PRINT	HOM E	DEL	Insert	.(>)
C 11 P 10	F12 (Favor ite)	L	E	SCROLL	END	Page Up	Page Down	/?
C 12 P 13	F10 (Mail)	F2 (VO L-)	Q	0	V	0())	K42	,(<)
C 13 P 07	APP	;;	1	NUM LO	7(K)	4(K)	1(K)	K45
C 14 P 06	ESC	К	<b>←</b>	/(K)	8(K)	5(K)	2(K)	0(K)
C 15 P 05	R	J	<b>↓</b>	*(K)	9(K)	6(K)	3(K)	.(K)

C 16 P 04	Т	Back S pack	$\rightarrow$	_(K)	+(K)	K107	Enter( K)	CAPS LOCK
C 17 P 16	X	2(@)	MyPC	Play/ Pa use	Media	Shift- R	Media Mute	Media Stop

# Functional Specification.



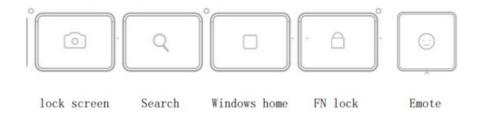
Item	Indicato r	Icon	Color	Definition
1	Charging	_	Red	Red always on when charging.
•	Charging	,	Green	Green always on when fully charged.
2	BT1	B1 0	Green	Green indicator is on.
3	Caps loc k/BT2	AB2	Green	Green indicator is on.
	FN lock/ BT3		Green	Green indicator is on.
4		<b>En</b> B3		

LVD	Flash re	The indicator flashes red slowly when the battery is low.
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#### 2. Multimedia function

FN+ESC:FN Lock FN+F1: Screen brightness decrease FN+F2: Screen brightness increase FN+F3: display all active windows FN+F4:copy FN+F5:paste FN+F6: Pre track FN+F7: Play/Pause FN+F8: Next track FN+F9: mute FN+F10: volume- FN+F11: volume+ FN+F12 Pop-up Keyboard F13:Force out F14 Print F15 save

## 3. Hotkey



## 4. Bluetooth forced pairing instructions

Press and hold FN+BT1/ BT2/ BT3 for more than 3 seconds to enter the pairing state,, and the green LED flashes quickly (the pairing time is 2minutes) ,Search BTSLKEYCB, click to enter the pairing , LED will be on for 2 seconds and then turn off , means that BLE pairing is successful.

#### **FCC STATEMENT:**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference, and This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur

in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

# **Documents / Resources**



Togran QW172 Scissor Keyboard [pdf] Owner's Manual TK402B, 2AGLG-TK402B, QW172 Scissor Keyboard, QW172, Scissor Keyboard, Keyboard

#### References

- User Manual
  - 2AGLG-TK402B, Keyboard, QW172, QW172 Scissor Keyboard, Scissor Keyboard, TK402B,
- TOGRAN TOGRAN

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