

TOGRAN LK150D Wireless Keyboard Instruction Manual

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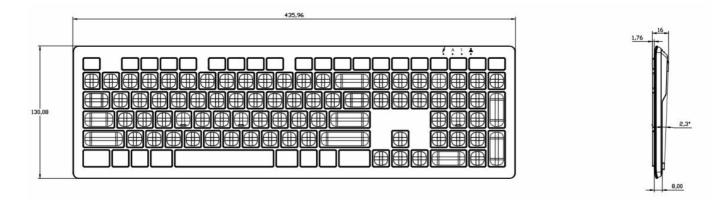
TOGRAN LK150D Wireless Keyboard



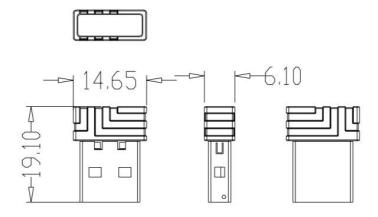
Introduction

This document contains a functional and performance specification of the Wireless USB slim Keyboard. 2.4G compatible with Win XP, Win Vista, Win7, Win8, Win8.1, Win10, Win11 and other operating systems.

Transmitter



Receiver



Physical Specification

Dimension

Transmitter

Height: 16.0±0.5mmLength: 436.0±0.5mmWidth: 130.0±0.5mm

Receiver

Height: 6.0±0.5mmLength: 19.0±0.5mmWidth: 15.0±0.5mm

• Weight: approx. 540± 50g.

Physical Specification Dimension

Transmitter

Height: 16.0±0.5mmLength: 436.0±0.5mmWidth: 130.0±0.5mm

Receiver

Height: 6.0±0.5mmLength: 19.0±0.5mmWidth: 15.0±0.5mm

Weight

540± 50g.Kepcap1# togran black According to customer requirements

Kepcap2

togran gray According to customer requirements

- · LED lens transparency clear
- Legend printing Pantone white/305C for Fn key
- L ED indicator icon Pantone 403C

Key switch

- Oper ating force of Key s: 6 5 1 5 gf
- T olal travel 1.5 0.3 mm
- Click ratio >40%

Bounce 5ms

Keyboard material

- Top case ABS or HIPS
- · B ottom case ABS or HIPS
- Kepcap1# ABS
- Kepcap2 # ABS
- LED lens transparency PC
- Mid board transparency PC
- · Scissors POM
- Rubber dome Silicone
- Foot (tur n) ABS+TPE
- Foot Silicone

Radio Characteristics

Transmitter

- Ra ting: 5V 500mA (with DC 3.7V 35 0mAh battery inside)
- Frequency 2.40~2.48 G Hz.
- · Working channel:16 channel
- Power consume: Key working 10 mA; Suspend I < 0.1 mA; Suspend II < 0.0 2 mA
- Working distance: > 10 Metre

Receiver

- System interface: USB port of PC.
- Supply voltage: 4.7 5V 10 %
- Working Power consumption: 30 mA (Max)
- Fre q ue ncy 2.40~2.48G Hz.
- Working channel: 1 6 channel

Important Components

• Receiver I C: TLSR8373A

• Transmitter IC: EP2T42F40ER(TLSR8373C)

Environment

Operating Temperature and Humidity

- Temperature 5 o C to 4 5 o C
- Humidity: 85% RH or less

Storage Temperature and Humidity

• Temperature: 15 o C to 6 5 o C

• Humidity: 85% RH or less

Reliability Specifications

• Switching speed: 3 0 cycles/ min

· Operating force of Key 65gf

High Temperature Test

• Temperature: 60 2 o C

• Storage time: 96 hours.

• After this test the mouse shall be left in room temp erature for 1 hour.

• Judging Criteria : No functional defect should be

Low Temperature Test

• Temperature: 15 2 o C

• Storage time: 96 hours

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

• Judging Criteria : No functional defec t should be found.

Moisture Test

• Temperature:40 2 o 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

Heat Cycle Test

• Temperature: 15 2 o C for 1 hour and then 60 2 o C for 1 hour

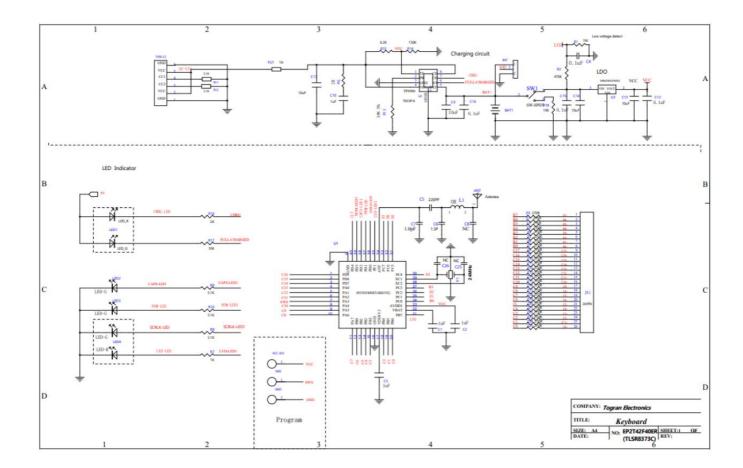
• Storage time: 5 cycles.

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

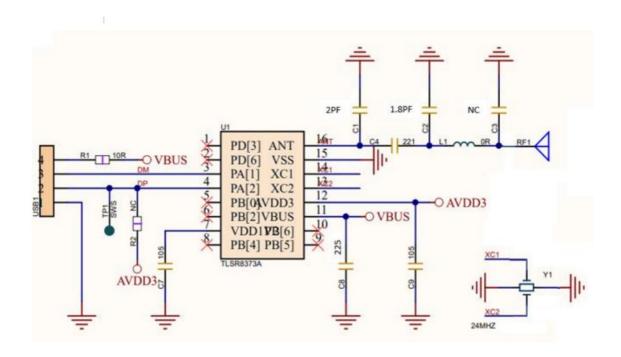
• Judging Criteria : No functional defect should be 8 Agency Certifications

Schematic

Transmitter



Receiver



Application Matrix

	R1	R2		R4	R5	R6	R7
R0 P20	P21	P22	R3 P23	P24	P25	P26	P27

C0						Next		
P15	Z	1(!)	POWER	Prev Track	Alt-R	Track	Sleep	WAKE UP
C1						www		www
P35	С	3(#)	€	Volume+	Volume-	refresh	Ctrl-R	favorite
						www	www	www
C2 P36	V	5%	F5	WWW back	Alt-L	Forward	STOP	search
C3 P37	ENTER	6^	F6			Shift-L		G
C4 P00	F	F3	PAUSE		М		Ctrl-L	MAIL
					www			
C5 P01	K56	4(\$)	SPACE	Win-L	Home	131	132	133
C6								
P02	K14	F4	A	Calculator		K150	K151	WIN_R
C7								
P03	F7	`(~)	S	Υ	Р	7(&)	В	
C8								
P11	F8		Tab	U	[{	8*	Н	N
C9								
P14	F9	=+	D	I]}	9(» «	FN
C10								
P12	F11	F1	W	PRINT	HOME	DEL	Insert	.(>)
C11			SCROLL			Page		
P10) F12	L	E	LOCK	END	Page Up	Down	/?
C12								
P13	F10	F2	Q	0	\	0())	K42	,(<)
C13								
P07	APP	;-	†	NUM LOCK	7(K)	4(K)	1(K)	K45

C14 P06	ESC	К	←	/(K)	8(K)	5(K)	2(K)	0(K)
C15 P05	R	J	↓	*(K)	9(K)	6(K)	3(K)	.(K)
C16 P04	Т	Back Spack	→	_(K)	+(K)	K107	Enter(K)	CAPS LOCK
C17 P16	X	2(@)	MyPC	Play/ Pause	Media	Shift-R	Media Mute	Media Stop

Functional Specification



LED Indicator

Item	Indicator	lcon	Color	Definition
		Red	Red always on when charging.	
T	1 Charging	+	Green	Green always on when fully charged.
2	Num lock	1	Green	Green indicator is on.
3	Caps lock	Α	Green	Green indicator is on.
	Scroll lock		Green	Green indicator is on.
4	2.4G	1	Flash red	When the 2.4G is pairing, the indicator flashes red quickly. After pairing successfully. The light goes out.
	LVD		Flash red	The indicator flashes red slowly when the battery is low.

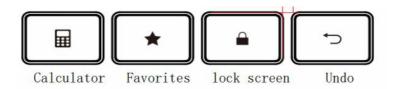
Multimedia function

• Fn+ Switch to Android Fn +W: Switch to Windows Fn +E: Switch to Mac

- FN+ESC:FN Lock
- FN+F1: Screen brightness decrease FN+F2: Screen brightness increase FN+F3: homepage
- FN+F4:Search FN+F5:music FN+F6: Pretrack FN+F7: Play/Pause FN+F8: Next track FN+F9: mute FN+F10: volume FN+F11: volume+ FN+F12 E mail

Hotkey

2. 4G forced pairing instructions Press FN+2.4G to Switch to 2.4G mode a nd then Press and hold FN+2.4G for more than 3 seconds to enter the pairing state, and the red LED flashes quickly(the pairing time is 2 0 seconds)), insert USB Dongle within 20 seconds , let keyboard close to the Dongle, LED will be on for 2 seconds and then turn off , means that 2.4G 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 p articular 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.



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