

Specification

Model: X59

Description: Wired mechanical keyboard
with frontal layout

1 Description

1.1 Overview

RGB 2-block 89 keys wired mechanical keyboard

1.2 Features

This wired professional mechanical backlight gaming keyboard is suitable for personal users.

- ◀ 18 backlight modes selectable;
- ◀ Adjust brightness and speed freely;
- ◀ Customized backlight zone;
- ◀ Support fully anti-ghosting;

2. Hardware Spec.

2.1 Cosmetic Spec

2.1.1 Keyboard

Size: 358.4*130.4*40.3mm ±2mm;

Weight: 1330g (with extra weight inside)



2.2 Environmental specifications

2.2.1 Operating Environmental

Working temperature	-5~ +45°C
Storage temperature	-20 ~ +60°C
Working humidity	10 ~ 90 % RH

Storage humidity	5 ~ 95 % RH
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2.2.2 Available Voltage range

Parameter	MIN	MAX	Unit
Input (Tx)	4.	5.5	V

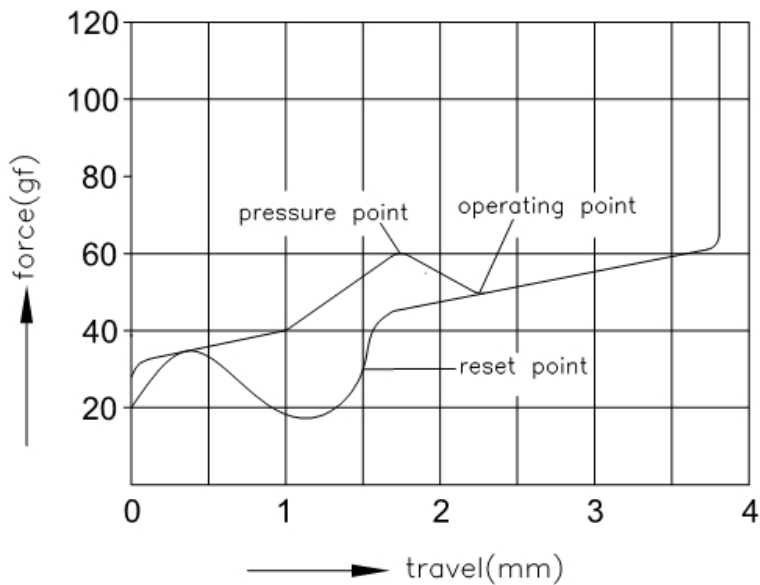
2.3 Main components specification

2.3.1 Keyboard

Name of components	Specification
Top case	ABS
Bottom case	ABS
Keycaps	Double injection/ laser
Feet	Double injection
Extra weight/Middle case	Metal (<u>optional</u>)
Pad	Black rubber
LOGO	laser/silkscreen/metal name plate
lampshade	N/A
Rating label	PET
MCU	WTU811
Backlight	RGB
Cable	1.75 meter full length+ magnetic ring+ nickel plated USB

2.4 Mechanical properties



2.4.1 The standard keycaps of the keyboard









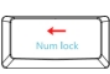













Fp loading	$60 \pm 5\text{gf}$
Work travel (Conductive travel)	$2.2 \pm 0.6\text{mm}$
Tactile Travel	$1.8 \pm 0.5\text{mm}$
Paragraph= $(Fp-Fc)/Fp*100\%$	(60-90)%
Maximum travel (120g)	$3.8 \pm 0.2\text{mm}$
Lifetime of switches	5000W, Outemu

2.5 Electrical spec


2.5.1 Basic function

Definition of RGB Electrical Function			
Insert USB and power on, 18 kinds of backlight modes cycled: Waving to the Right side (default) - LED always ON - 7-color cycled breathing - single click to light up - rotating horse racing - Spectrum of waving - waving to the middle zone - Ripple - Surfing - 3 glowing fish - Love Artifact - Colorful Fountain - Traffic LED - Gluttonous Snake - Dancing - Cross surfing - Neon - Random Waving			
A	FN+multi media hotkey	short cut key	shortcut key
		 = music	 = previous song

B	FN+Keyboard lock functional keys	Fn+  = volume -	Fn+  = play/pause	
		Fn+  = volume +	FN+  = next song	
		Fn+  = mute	FN+  = backlight mode change	
		Fn+  = stop	FN+  = Printscreen	
		Fn+  = Num lock/unlock	FN+  = Scroll lock/unlock	
			FN+  = Pause	
		Short cut key	Function	Status
		Fn+ 	Lock/Unlock Win and APP	After lock the win key, this keyboard will be no function, press again, it will be unlock
		FN+ 	Lighting mode switch	The default mode , wave to the right
		Fn+ 	LED Speed down	5-level of speed, only work when under dynamic backlight modes;
		FN+ 	LED Speed up	5-level of speed, only work when under dynamic backlight modes;
		Fn+ 	Increase LED brightness	5-level, works under all backlight modes;
		Fn+ 	Decrease LED brightness	5-level, works under all backlight modes;
		Fn+ 	Single color switch (forward)	Only works when under backlight modes of LED always ON, 7-color cycled breathing,single click to light up, spectrum waving, ripple and Dancing
Fn+ 	Single color switch (Backward)	Only works when under backlight modes of LED always ON, 7-color cycled breathing,single click to light up, spectrum waving, ripple and Dancing		
Fn+ 	side RGB switch	Horse racing(default)/LED always ON (6-color)/Neon/LED OFF		

2.5.2 Main Parameter of the keyboard

- 1) Working voltage : $5V \pm 0.5V$
- 2) Working current: $\leq 300\text{Ma}$
- 3) Input method: USB
- 4) Backlight customized function (with driver)
- 5) Backlight effect of side lighting bars at two sides
Horse racing - LED always ON - rainbow - Neon- LED OFF

By press FN +  to exchange the backlight modes.

- 6) Automatic identification 6 key and N key, default 6 key

3. Software

3.1 Driver

YES NO

4. system requirement

XP/Vista/Vista 64/Win7/Win7 64/WIN8/WIN10