



CHERRY XTRFY MX 8.2 PRO TMR TKL Wireless Gaming Keyboard

64420051-00, EN, ZHs, ZHt, KO, © Apr 2025 [GBE-3885xxxxxx = Mod. GBE-3885, GBE-3885R]

EN OPERATING MANUAL

- CHERRY Key 👉
- Adjust the Sound Volume
- Adjust the Backlighting Brightness
- Adjust the Backlighting Transition Speed
- Enable / Disable the Gaming Mode
- (Windows) Launch the Default Web Browser (macOS) Spotlight Search
- (Windows) Open the File Explorer (This PC) (macOS) Finder
- Change Backlighting Effects
- Restore Factory Default Settings
- Access the Fn Layer Functions
- Select Colors for the Current Backlighting Mode
- 2.4 GHz Wireless Connection Status Indicator
- Bluetooth Connection Status Indicator, Select Channels, Start Pairing

Before You Begin

💡 Every Device is Different!
The operating manual contains information on effective and reliable use.
<ul style="list-style-type: none">Read the operating manual carefully. Keep the operating manual and pass it on to other users when needed. <p>• This manual may not contain the most recent updates to our products as we continuously strive to improve your experience. For the latest operating instructions and product features, please visit CHERRY's official website.</p>

CHERRY XTRFY MX 8.2 PRO TMR TKL Wireless is a versatile tri-mode keyboard, supporting 2.4 GHz wireless, Bluetooth 5.3, and USB cable connectivity, designed specifically to enhance your gaming experience.

For information on other products, software downloads and much more, visit us at www.cherry-world.com or www.cherry.de.

1 Safety Precautions

For safety, keep the device away from children under the age of three to prevent choking on small parts. The keyboard contains a permanent rechargeable battery. To avoid fire risks, do not disassemble, crush, heat, or incinerate the device.

Repetitive Strain Injury (RSI) is caused by small, repetitive movements during prolonged use of computers, keyboards, and mice.

- To prevent RSI, it is recommended to:
 - Ergonomically set up your workspace. Arrange your keyboard and mouse to keep your upper arms and wrists naturally positioned.
 - Use the adjustable feet on the bottom of the keyboard to find a comfortable angle for typing.
 - Incorporate short breaks into your routine, with stretching exercises as appropriate.
 - Adjust your posture regularly to prevent strain.

2 Switching Keyboard On / Off

2.1 Turn On Keyboard

- Connect the keyboard to your computer using the provided USB cable.
- Or
- Slide the connection mode switch on the back of the keyboard to the Bluetooth or 2.4 GHz Wireless position.

2.2 Turn Off Keyboard

- Disconnect the USB cable.
- And
- Slide the connection mode switch to the center position.

3.2.5 Switching Bluetooth Devices

To switch between devices connected to your keyboard via the three Bluetooth channels, follow these steps:

- Make sure that the connection mode is set to Bluetooth.
- Press the Fn key and the corresponding channel key (1, 2, or 3).

3.3 Connecting Keyboard via Wireless Receiver

MX 8.2 TMR Wireless Receiver supports 8K Polling Rate data transfer. It has two LED indicators, which respectively display the power status and connection status. Follow the steps below to connect your keyboard using the 2.4 GHz wireless receiver.

- Slide the connection mode switch to the 2.4 GHz Wireless position.
- Connect the wireless receiver to your computer with the provided USB cable. The power indicator on the receiver lights up white.

The Connection Status Indicator on the receiver slow flashes white when the receiver is waiting for connection with the keyboard. It remains lit in white after successful connection. When the keyboard is in power saving modes or moved out of range, the status indicator slow flashes white.

3.4 Dealing with Connection Failures

The keyboard tries to connect your device for 30 seconds in 2.4 GHz wireless and Bluetooth modes. If the connection attempt fails, the keyboard will enter sleep (battery powered) or standby (USB powered) mode. Please try again or refer to 15 Troubleshooting Problems.

3.5 Pairing Wireless Receiver

Your keyboard and wireless receiver come pre-paired for immediate use. If you would like to pair a replacement receiver or troubleshoot the wireless connection issues, follow these steps:

- Slide the connection mode switch to the 2.4 GHz Wireless position.
- Press and hold [Fn + 4] until the wireless indicator key [4] starts fast flashing.
- Connect the wireless receiver to your computer with the provided USB cable.

4 Choosing Windows or macOS Mode

Press [Fn + Enter] to switch between Windows and macOS modes. The [Enter] key remains lit in blue or green for 3 seconds to confirm the activation of Windows or macOS mode, respectively. Press and hold the Fn key to check the active operating system mode. Refer to the table below for the key functions specific to each mode.

Key	Windows	macOS
⏏ [Win]	[Option]	
⌘ [Cmd]	[Alt]	[Command]
⌘ [Fn]	[Option]	
F1-F12	F1-F12	Fn Layer Functions

See the next section for additional key mappings.

5 Using Fn Layer Functions

MX 8.2 TMR keyboard is equipped with a variety of built-in functions, some of which are denoted by symbols on the underside of the keycaps.

- To perform a desired function on Windows, press and hold the Fn key and press the corresponding key.

- To perform a desired function on macOS, just press the F1-F12 key or Fn + corresponding key. Example: Press [Fn + F1 ⏏] on Windows or [F1 ⏏] on macOS to mute or unmute the sound. Refer to the table below for details.

Key	Function
[F1 ⏏]	Mute / Unmute
[F2 🔊]	Sound Volume Decrease
[F3 🔊]	Sound Volume Increase
[F4 🌞]	Backlighting On / Off
[F5 🌞]	Backlighting Brighter
[F6 🌞]	Backlighting Darker
[F7 🔍]	Backlighting Effect Slower
[F8 🔍]	Backlighting Effect Faster
[F9 🖱]	Enable / Disable the Gaming Mode
[F10 🔍]	Default Web Browser (Windows) Spotlight Search (macOS)
[F11 🖱]	File Explorer (Windows) Finder (macOS)
[F12 🌞]	Change Backlighting Effects
[Esc 👉]	CHERRY Key (Windows Only)
[Spacebar]	Select Colors for the Current Backlighting Mode
[Pause]	Press for 5 seconds to restore the keyboard to factory default settings
[Enter]	Switch Windows / macOS Mode
1, 2, 3	Select Bluetooth Channels, Hold to Start Pairing

Key	Function
4	Press and Hold to Re-pair 2.4 GHz Wireless Receiver

To keep the Fn key in the active (locked) state, press and hold the [Ctrl] key and then press the Fn key. The Fn key remains lit in red when locked. Press [Ctrl + Fn] again to unlock the Fn key.

6 Polling Rates

The Polling Rate determines the frequency at which your keyboard checks for key presses and communicates this information to your computer. MX 8.2 TMR keyboard features a high polling rate capability, up to 8000Hz in wired mode and 2.4 GHz wireless mode, coupled with exceptionally low latency, providing a significant advantage for competitive gamers.

The default polling rate is 8000Hz in USB wired mode and 2.4 GHz wireless mode. You can tailor the polling rate using CHERRY Software. Keep in mind that a higher polling rate will result in greater power consumption.

7 Customizing Actuation Point and Rapid Trigger

CHERRY Software allows gamers to fine-tune the behaviors of the magnetic switches to improve their performance in different games. The key travel distance can be adjusted from 0.1mm to 3.3mm in 0.1mm increments. See Section 9 for details on how to run CHERRY Software.

The actuation point determines the travel distance required for a key press to be registered. The Rapid Trigger feature enhances the keyboard's input speed and responsiveness. Unlike traditional mechanical switches, which have fixed rest points, MX 8.2 TMR switches can trigger flexibly as soon as the key starts to move upward after being pressed.

Follow the steps below to change the settings:

- In the Keyboard Settings screen, click on the key title.
- In the Actuation Point section, drag the slider or input the actuation point value. Add more actuation points if needed.
- In the Rapid Trigger section, drag the slider or input the trigger distance.
- After making the adjustments, it's important to test the new settings. Press the key to see how it affects the input registration.
- Click "Apply" or "Cancel" to save or discard the changes.

8 Customizing Backlighting Effects

MX 8.2 TMR keyboard allows you to personalize the backlighting effects. Utilize CHERRY Software to fine-tune the backlighting settings for optimal visibility and aesthetics. The keyboard remembers the current backlighting settings.

8.1 Using Built-in Backlighting Effects

Select the desired backlighting effect by pressing [Fn + F12 🌞]. Keep using this key combination to switch between various built-in backlighting effects.

8.2 Selecting Backlighting Colors

Press [Fn + Spacebar] to change the color of the current backlighting effect. Repeatedly press this key combination to cycle through the available colors.

9 Using CHERRY Software

To unlock the full capabilities of your MX 8.2 TMR keyboard, you need to install CHERRY Software on your computer. CHERRY Software serves as a control center, allowing you to:

- Update the Software itself and the keyboard's firmware.
- Customize the actuation points and rapid trigger settings for TMR switches.
- Customize the keyboard's backlighting effects to your liking.
- Create, record, and edit macros to streamline operations and gameplay.
- Assign different keys, macros, text, or operating system functions to individual keys.
- Adjust various parameters that dictate the keyboard's behavior for an optimized experience.

CHERRY Software is user-friendly and easy to navigate. Should you require further assistance, our customer support team is ready to help.

9.1 Installing CHERRY Software

Follow these instructions to install CHERRY Software:

- Always use the most recent version of the software. Accept updates when notifications appear.
- Download the free software from CHERRY's official websites: www.cherry-world.com or www.cherry.de. Alternatively, Press [Fn + Esc 👉] to open the web link which directs you to download CHERRY Software. Select the driver software for MX 8.2 TMR keyboard.
- Launch the installer after the download.
- Proceed with the installation by following the on-screen prompts.

9.2 Running CHERRY Software

When CHERRY Software is installed, you can press [Fn + Esc 👉] to bring up the application.

9.3 Updating Firmware

When a new firmware version is available, CHERRY Software will prompt you to update your keyboard firmware. Keeping your firmware up to date is crucial for optimal keyboard performance.

Please plug in the wireless receiver to make sure its firmware is also updated to the latest version.

💡 Updating the Keyboard Firmware in the Cable Mode
For a seamless firmware update, always connect your keyboard to your computer using the USB cable. This ensures the update process is uninterrupted by potential battery depletion.

10 Using Gaming Mode

MX 8.2 TMR keyboard comes with a dedicated Gaming Mode. This feature is particularly useful when you want to prevent accidental interruptions during gameplay by disabling the Windows Start-up function.

Press [Fn + F9 🖱] to enable or disable the Gaming Mode. The 🖱 key remains lit in red when the Gaming Mode is enabled.

Please note that Gaming Mode is available only on Windows systems.

11 Changing Key Switches

MX 8.2 TMR keyboard features hot-swappable key switches. You can use TMR magnetic switches or traditional mechanical switches interchangeably for the Main Key Section of the keyboard. Use TMR magnetic switches only for the Editing Key Section.

🔧 Managing Multiple Bluetooth Devices on Your Computer
Your computer has a finite capacity for active Bluetooth connections. Adding multiple devices may lead to profile conflicts or a shortage of available ports. It is important to be aware of your computer limitations to ensure seamless operation of all connected Bluetooth devices.

- Minimize interference by turning off any unnecessary Bluetooth devices.
- Remove the existing keyboard connection in your Bluetooth settings and then re-add it as a new device to ensure a fresh connection.
- If you have assigned different Bluetooth channels, switch to an alternate Bluetooth channel if necessary to avoid connection issues [refer to 3.2.5 Switching Bluetooth Devices].
- Identify and remove potential sources of interference that may affect signal strength, such as other wireless devices or physical obstructions.
- Ensure that the keyboard and receiver have the latest drivers and firmware installed, which can resolve compatibility and performance issues.
- Re-pair the receiver with the keyboard to re-establish a stable connection. For detailed instructions, refer to 3.5 Pairing Wireless Receiver.

- Use the keypad below to customize key switches on your keyboard.
- With the switch puller, carefully remove the switches you wish to replace.
- Align the new switches and press them firmly into the sockets.
- Position the keycaps over the new switches and press down to secure them.

Follow the steps below to customize key switches on your keyboard.

- Minimize interference by turning off any unnecessary Bluetooth devices.
- Remove the existing keyboard connection in your Bluetooth settings and then re-add it as a new device to ensure a fresh connection.
- If you have assigned different Bluetooth channels, switch to an alternate Bluetooth channel if necessary to avoid connection issues [refer to 3.2.5 Switching Bluetooth Devices].
- Identify and remove potential sources of interference that may affect signal strength, such as other wireless devices or physical obstructions.
- Ensure that the keyboard and receiver have the latest drivers and firmware installed, which can resolve compatibility and performance issues.
- Re-pair the receiver with the keyboard to re-establish a stable connection. For detailed instructions, refer to 3.5 Pairing Wireless Receiver.

12 Disposing of Devices

- Do not dispose of devices with this symbol in household waste.
- Dispose of devices in accordance with statutory regulations at your local dealer or at municipal recycling centers.

17 Technical Data

Designation	Value
Supply Voltage	Keyboard: 5.0 VDC ± 5% SELV Receiver: 5.0 VDC ± 5% SELV
Charging Voltage	Typical 5.0 WDC
Charging Current	Max. 1200 mA
Current Consumption	Max. 1500 mA
Battery	Rechargeable Lithium-ion Battery, 8000 mAh, 3.7V
Operating Frequency	2400.0 ... 2483.5 MHz
Effective Radiated Power	Max. 10 mW (EIRP)
Bluetooth	5.3
Storage Temperature	-20 °C ... +45 °C
Operating Temperature	0 °C ... +45 °C

15 Troubleshooting Problems

If you encounter any issues while operating the keyboard, please try the following:

- Power cycle the keyboard by turning it off and then on again.
- Use another USB port on your computer.
- Verify the keyboard's functionality by testing it with another computer.
- Set the option "USB Keyboard Support" and "USB Legacy Mode" to "Enabled" in the BIOS of your computer.
- Charge the keyboard [refer to 12 Charging Keyboard].
- Remove any metallic or electrical objects that may be causing interference, such as cables, loudspeakers, or USB hubs.
- Decrease the distance between the keyboard and the computer to improve signal strength.
- If you experience interference with USB 3.0 devices located near the receiver, try using a different port that is farther away, an alternative cable, or a USB hub for either the receiver or the USB 3.0 device.



Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.
- Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

• Use the keyboard bottom of the adjustable support, find a comfortable typing angle.

3.4 处理连接故障

在 2.4 GHz 无线和蓝牙模式下，键盘尝试连接设备 30 秒。若连接尝试失败，键盘将会进入睡眠（电池供电）或待机（USB 供电）状态。请再次尝试或者参见 15 排除故障。

3.5 配对与无线接收器

您的键盘和无线接收器已经预先配对，无需额外设置即可立即使用。如果您需要使用替代的无线接收器或解决无线连接问题，请按以下步骤操作：

- 将连接模式开关滑动到 2.4 GHz 无线位置。

