



MILLENNIUM

Instruction

M841 eONE



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1 IMPORTANT INFORMATION

Before using this device, please read the following safety notes and operating instructions completely, and pay careful attention to them. Please store this user manual with the device, so that you can refer to it later if needed. If you later give this device to another user, please also give them this manual.

This device is intended for private use in dry indoor rooms.

1.1. Safety instructions

- Please note that this product is not a child's toy within the meaning of Directive 2009/48/EC. If you let your children use the device, ensure you instruct them accordingly and ensure that the device is used only as intended.
- Keep the packaging bags and film away from babies and small children, as there is a danger of suffocation!
- In order to avoid damage, do not expose the device to heat, e.g. from radiators or from direct sunlight, and do not expose it to any kind of moisture.
- In order to avoid malfunctions, do not operate the device on or near devices that create magnetic fields or electromagnetic radiation, such as for example televisions, loudspeakers, mobile and cordless telephones, WiFi devices etc.
- To charge the eONE's built-in battery, use a 5V USB mains adaptor that has at least 0.6A power.
- Regularly inspect the device for damage, and do not use it if damaged.

1.2. Notes on using the mains adapter

- The power socket should be located close to the device and should be easily accessible.
- The device should not be connected to more power sources than recommended.
- The electrical contacts must not be short-circuited.
- Always disconnect the adaptor from the mains before cleaning the device.
- Regularly check the product and the power supply unit for damage, and do not use either of them if they are

damaged. Never open them up.

- Please follow the safety instructions on the mains adaptor.

2 PACKAGE CONTENTS

- eONE e-board
- Set of chess pieces for eONE
- Bag to keep chess pieces in
- USB cable for charging and for transmitting data
- Short user manual
- Important notes

3 FIRST USE

- Before you use the eONE for the first time, the device must adapt to room temperature.
- After unpacking, fully charge the device. When all 3 front buttons' LEDs are permanently lit, the eONE is fully charged. This can take up to 4 hours, depending on the charge level.



- Switch on the eONE by pressing the ON OFF button, and check that Bluetooth is switched on.



- On your mobile device, download the ChessLink app from the App Store or Play Store, and install it.
- Perform the initial setup in the app, in order to connect your eONE. Ensure that location sharing is enabled, as the Bluetooth connection is otherwise not possible. [Note: the eONE is connected directly from the app, and not via the mobile device's system settings.]
- Once your eONE is connected to the app, you can log into Lichess from the app. Now set up the pieces – white is at the front. Seek an opponent in the app, and begin your game. If you are playing with the black pieces, turn the board round to make playing easier. Make your moves in the usual manner. The eONE's LEDs show you your opponent's moves.
- If you notice functional faults, then the eONE needs calibrating first. You can

find out more about this in Chapter 10 of these instructions.

Important tips for care of your device:

- Please ensure you charge your eONE at least every 2 months.
- We recommend recalibrating the eONE every 2 months. To do so, please remove all pieces from the board and press and hold the ON/OFF button down for 10 seconds. You can find more instructions about calibration in Chapter 10.

4 CHARGING THE DEVICE

- Connect a USB Type 3 cable to the eONE.
- Connect the USB cable to a computer or USB power adapter.
- We recommend using a standard USB power adapter with $5V \geq 600$ mA.
- The device takes a maximum of 4 hours to fully charge.
- Please charge the eONE completely before the first game.
- To ensure long battery life, please charge the eONE at least every 2 months.

4.1. Charging indicators

- When the eONE is switched on: The LED on the middle button flashes.
- When the eONE is switched off: All 3 LEDs on the buttons light up dimmed, increasing in brightness. When all 3 LEDs are continuously lit, the battery is fully charged.



4.2. Charge level indicators

- Every time the device is switched on, the 3 LEDs on the buttons flash briefly. The more the LEDs flash, the higher the battery's charge level.
- If only the left LED flashes, we recommend you charge your eONE soon.
- If the battery is completely drained, only the middle LED flashes.
- Game time depending on how bright the LEDs are and the connection type at least 18 hours.
- Standby time approx. 2 months.

5 CONTROLS AND THEIR FUNCTIONS

The eONE features the following controls:

- 64 chess squares (each with 4 LEDs and a sensor) to display the opponent's moves.
- USB Type C connection for charging and data exchange.
- **On/Off** button
 - ◊ Switch on/switch off – press briefly
 - ◊ Short reset – press and hold the button for 3 seconds – the LEDs for the starting position are now continuously lit – clears the currently saved positions and restores the factory settings.
 - ◊ Start calibration – press and hold the button for 10 seconds.

- **Invert board** button



- ◊ Main function: Invert the board – the black pieces are now at the front
- ◊ Additional function: Under-promotion to a knight

- **LED brightness** button



- ◊ Main function: Dimming the LEDs
- ◊ Additional function: Under-promotion to a bishop

- **Bluetooth** button



- ◊ Main function: Bluetooth connection ON/OFF
- ◊ Additional function: Under-promotion to a rook
- ◊ Note: If transmitting data via USB cable, Bluetooth must always be switched off!

- **RESET** switch

- ◊ The RESET switch is located underneath an opening on the bottom of the eONE chess board.
- ◊ It can be operated with a sharp object (e.g. a bent open paper clip). Use it to restart the eONE if the board is disabled and no longer reacts to inputs.

Note on using the front buttons:



Always press the 3 front buttons using your flat finger. This must be applied flat from the edge of the board so that the buttons respond correctly.

Alternatively you can also press the buttons with the bottom of a chess piece.

6 PLAYING WITH THE EONE

6.1. Switch the eONE on

Briefly press the ON/OFF switch. All starting position squares, or those of the last finishing position, flash. Connect the eONE to the desired application, for example the ChessLink app.

6.2. Setting up the pieces

Set up the starting position on the board. When you do so, please note:

- The white pieces are at the front (near the function buttons).
- If the 'invert board' function has been activated (left LED with arrow lit up), then the black pieces are at the front.
- Bear in mind the familiar basic rule: white queen on the white square, black queen on the black square.

Once all pieces have been set up, the LEDs go out and the board is now ready for play.

6.3. Selecting the chess application

You now have to execute the desired chess application and connect the eONE. If, for example, you are using the ChessLink app for the online game on Lichess, start the app, connect the eONE and establish the connection to the Lichess server via the app. Once you have found an opponent, you can start your game.

You will find an overview of compatible chess programs and apps at <https://www.computerchess.com>. You will also find instructions on how to use the ChessLink app on our website or also directly in the app.

If you want to use third-party applications that are compatible with our ChessLink protocol and hence with the eONE, then please pay attention to the relevant instructions for the corresponding application.

6.4. Making moves

Make your moves in the usual manner. Please note:

- When castling, first move the king, then the rook.
- If your software application supports retracted moves, then always make

these in the correct sequence (reset the last moved piece first).

6.4.1. Flashing LEDs

Flashing LEDs indicate when a position on the board is incorrect or the board is not able to correctly identify the position. Retract the most recent move and set the piece down again in order to correct the error. It is usually enough to just briefly lift the most recently placed piece again.

For capturing moves in particular, ensure you lift both pieces. If, e.g. you make a pawn capture move from d4 to e5, lift the pawn on d4, take away the pawn on e5 and put down your d4 pawn there.

Check to see if the position on the board possibly does not comply with the rules of chess (for example, your king is in check!).

6.4.2. Pawn promotion to a queen

To promote a pawn to a queen when you reach the last row, lift the pawn on row 7 (or 2), take the replacement queen and set it down on the target square. If you already have 2 queens in play, you can take any other piece and remember this accordingly.

6.4.3. Pawn promotion to a knight, bishop or rook

To promote a pawn to a knight, bishop or rook, lift the pawn on row 7 (or 2). The 3 buttons on the front now flash. Confirm the desired piece using one of the 3 buttons, and set it down on the target square.

Important: Even if your opponent is promoting a pawn to a knight, bishop or rook, you must still proceed in exactly the same way.

Assuming your opponent has promoted to a knight and you haven't noticed this, you have to take the move back on the board and then proceed as described above.

6.4.4. Troubleshooting (moves are not detected)

The board detects moves by means of a change to the sensor values on the surface, i.e. an occupied square has a different value to an empty square.

If, e.g. you drag the capture move d4xe5 across the board, the board may not be able to detect any change to the sensor values on e5 (as this is occupied the whole time) and then indicates an error. Lift up the piece from the target square briefly

again or perform the complete move again to rectify the error.

Pay particular attention when carrying out double capture moves - in other words moves where your opponent captures and you capture back immediately after - that you also perform both moves on the board. The eONE is unable to detect such moves being made „in one step“.

Another note of advice: If you mistakenly bump into and move an adjacent piece when making a move, and if this move would also be legal, it can happen that the eONE recognises this move as set. Therefore make sure you make the moves cleanly.

If the position does not comply with the rules of chess after making your move - e.g. because your king is in check - the move cannot be made.

7 BLUETOOTH CONNECTION

Many applications use the modern Bluetooth Low Energy version (BLE), which is also installed in the eONE. This connection has two special features that you must bear in mind:

- Pairing with the mobile device using BLE is always done directly in the application, never via the mobile device's system settings (example: ChessLink app).
- For a successful connection, location sharing must be enabled, otherwise the Bluetooth connection cannot be established. Agree to this when the mobile device asks for it, otherwise the connection cannot be made.

8 USB CONNECTION

You can get the USB driver for the eONE connection from www.computerchess.com.

To make use of the USB data connection, Bluetooth must be switched off.

9 TROUBLESHOOTING: TIPS FOR PLAYING ONLINE ON CHESS SERVERS

When playing online, above all everything depends on all 5 components of the system working reliably: eONE - Bluetooth - mobile device - WiFi or mobile network - chess server. If problems occur in this respect, please check the following points:

9.1. Bluetooth connection to the device

- The distance between eONE and the mobile device should not be too big.
- Location sharing (in case of BLE) must be enabled.
- You can check this e.g. by means of the position check in the ChessLink app
- Bluetooth on the eONE must naturally be switched on

9.2. Internet connection

If you have problems e.g. that the chess clock is not synchronous with the server, the cause is usually down to the fact that the connection to the internet is not stable. This frequently occurs when you connect to a mobile device via WiFi but the WiFi router is relatively far away (weak WiFi network). Unlike surfing the internet or receiving emails, where you may not notice any restrictions, for playing chess online you need a very reliable connection both for uploading and downloading!

If your WiFi is not adequate for this, try using the mobile network. This often works better, as the network coverage is usually more extensive than the WiFi coverage.

The required data volume itself is very small, whereas the stability and speed of the connection are more important.

9.3. Server status

It can also happen that the chess server cannot currently be reached in a stable manner, e.g. due to maintenance work or during periods with low utilisation (reduction of the server capacities). You can easily check this e.g. via your mobile device's browser by accessing the corresponding platform.

9.4. Problems with chess applications if you use more than one

The eONE is compatible with a number of chess applications. If you have functional problems with the application after switching applications, hold the ON/OFF button pressed for 3 seconds whilst the eONE is switched on. The eONE will then restart and resets the system parameters relevant for playing back to the factory settings. The application will now work with high probability.

10 CALIBRATING THE BOARD

From time to time, the eONE board must be recalibrated. The board's sensors can for example react to temperature changes or changes in humidity levels.

It is easy to recognise if the board should be calibrated. For example:

- Moves are regularly not detected
- Or squares sporadically flicker, even though no piece has been placed on them,
- or moves are made that you have not set
- or the 3 front buttons activate themselves, or lose their function.

To calibrate the board, proceed as follows:

- Completely clear the board and clean the surface. Ensure there are no objects (including fingers) on the playing surface.
- The device must be switched on.
- Press and hold the ON/OFF button for around 10 seconds, until all the squares' LEDs light up. Then release the button.
- A blinking pattern across the entire chessboard shows that calibration is in progress.
- Once the LEDs flash in starting position, calibration is complete and the eONE is ready for use again.

11 RESET TO FACTORY SETTING:

In case of malfunctions that you are unable to understand, and which cannot be rectified either using the RESET switch or by means of a calibration, you should reset the eONE to the factory settings. Proceed as follows:

- Completely clear the board and clean the surface. Ensure there are no objects (including fingers) on the playing surface.
- The device must be switched on.
- Press and hold the ON/OFF button for around 20 seconds.
- The LEDs now display a small X, followed by the blinking pattern of the calibration process.
- Once the LEDs flash in starting position, the factory reset is complete and the eONE is ready for use again.

12 TECHNICAL DATA

Item no:	M841
Frequency:	2402-2480MHz
Range:	approx 8m
Charging time:	4 hours

13 EC CERTIFICATE OF CONFORMITY

Millennium 2000 GmbH hereby declares that eONE M841 conforms to the relevant EC directives (in particular those mentioned below), and that the series was manufactured accordingly:

- (RED) Radio Equipment Directive (R&TTE) 2014/53/EU
- (WEEE) Waste Electrical and Electronic Equipment Directive 2012/19/EU
- (RoHS) Restriction of Hazardous Substances Directive 2011/65/EC

The certificate of conformity may be viewed at:

https://www.millennium2000.de/doc/doc_M841_doc.pdf

14 DISPOSAL

Dispose of packing materials in an environmentally friendly manner by using the relevant collection containers provided for the purpose.



According to EC Directive 2012/19, the device must be disposed of properly at the end of its service life. Suitable parts of the device will then be recycled, reducing environmental pollution. For more information, please contact your local waste disposal company or your municipal administration.

Note that the eONE's built-in battery is replaceable. You can purchase the relevant replacement kit from our customer service department.

15 WARRANTY, SERVICING AND MANUFACTURER

15.1. Warranty terms

Your legal warranty rights apply to this product. We also grant an additional 3-year warranty for this product. This does not

restrict your legal warranty rights. The following warranty conditions apply:

- We shall rectify damages or defects at no cost if it can be demonstrated that these stem from a manufacturing error. If defects are detected they have to be reported to us immediately and in writing within the warranty period.
- The warranty does not cover batteries or fragile parts such as glass or plastic. Warranty claims shall not apply to minimal deviations from product descriptions which are insignificant for the value or usability of the device, nor for damage from chemical, electrochemical or water sources, nor in general for abnormal external conditions.
- The terms of warranty are such that defective parts shall, at our discretion, be repaired or replaced with perfectly functioning parts at no cost. Devices are to be submitted at the place of purchase or sent to our customer service location in the event of a warranty claim. We will retain parts that have been replaced.
- In the event of assertion of a warranty claim, the purchase receipt, together with the date of purchase or delivery, is to be submitted or sent to us.
- The warranty becomes null and void if repairs or repair attempts are made by unauthorised people, and which are the cause of the warranty claim.
- Services provided as part of the warranty do not extend the warranty period, nor do they start a new warranty period. The warranty period for replacement parts ends with the expiry of the period for the entire device.
- Any other claims, in particular for damages incurred outside the device itself, shall – unless there are legal grounds to do so – not be considered.

15.2. Customer service contact details

In the event of a warranty claim, customers in Germany, Austria and Switzerland should contact our customer service team.

Hotline for Germany: 0800 – 64 55 366

Hotline for Austria: 0800 – 28 18 29

Hotline for Switzerland: 0800 – 83 51 28

MILLENNIUM 2000 GmbH, Servicecenter,

Reiherstrasse 2, 35708 Haiger, Germany

Telephone: +49 (0)2773 7441 222. Email: support@millennium2000.de

Customers in other countries: Please contact the dealer from which you purchased the product.

In the event that something is simply missing, you can request the missing part from your dealer or our customer service department.



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