

# hEX series

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## First use

- Connect your Internet cable to port 1 (labeled “Internet”), and local network computers to ports 2-5
- Set your computer IP configuration to automatic (DHCP)
- The IP address from local network is 192.168.88.1, use it in your browser to access the device

## Powering

The device accepts powering from the power jack or from the first Ethernet port (Passive PoE):

- Direct input power jack (5.5mm outside and 2mm inside, female, pin positive) accepts 8-30 V DC.
- The first Ethernet port accepts passive Power over Ethernet accepts 8-30 V DC.

The power consumption of this device under maximum load is up to 3 W.

## Booting process

The device is already configured and protected from the internet side. Once your PC is connected to one of the LAN ports, open <http://192.168.88.1> in your web browser to start configuration. Since there is no password by default, you will be logged in automatically. Set up your password in the screen that loads. RouterOS includes many configuration options in addition to what is described in this document. We suggest to start here to get yourself accustomed to the possibilities: <http://mt.lv/help>.

In case IP connection is not available, the Winbox tool (<http://mt.lv/winbox>) can be used to connect to the MAC address of the device from the LAN side (all access is blocked from the internet port by default). For recovery purposes, it is possible boot the device from network, see section Buttons

## Extension Slots and Ports

The device has five individual Ethernet ports, supporting automatic cross/straight cable correction (Auto MDI/X), so you can use either straight or cross-over cables for connecting to other network devices. The Ethernet port accepts 8-30 V DC powering from a passive PoE injector, 12 V or more is recommended to compensate for loss in cables.

## Buttons

### Reset button

- Hold this button during boot time until LED light starts flashing, release the button to reset RouterOS configuration (total 5 seconds).
- Keep holding for 5 more seconds, LED turns solid, release now to turn on CAP mode. The device will now look for a CAPsMAN server (total 10 seconds).
- Or Keep holding the button for 5 more seconds until until LED turns off, then release it to make the RouterBOARD look for Netinstall servers (total 15 seconds).

Regardless of the above option used, the system will load the backup RouterBOOT loader if the button is pressed before power is applied to the device. Useful for RouterBOOT debugging and recovery.

### Mode button

The action of the mode buttons can be configured from RouterOS software to execute any user supplied RouterOS script. You can also disable this button. The mode button can be configured in RouterOS menu `/system routerboard mode-button`

## Operating System Support

The device supports RouterOS software with the version number at or above what is indicated in the RouterOS menu `/system resource`. Other operating systems have not been tested.

# CE Declaration of Conformity

Full Declaration of Conformity (DoC) may be obtained by visiting our product page on <https://mikrotik.com>



|    |  |
|----|--|
| EN | Hereby, Mikrotik SIA declares that this routerboard is in compliance with the essential requirements and other relevant provisions of directive 2014/53/ec.  |
| BG | С настоящето, Mikrotik SIA декларира, че routerboard е в съответствие със съществените изисквания и другите приложими разпоредби на директива 2014/53/ec.  |
| CZ | Mikrotik SIA tímto prohlašuje, že routerboard splňuje základní požadavky a všechna příslušná ustanovení směrnice 2014/53/es.   |
| DK | Undertegnede Mikrotik SIA erklærer herved, at følgende udstyr routerboard overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/ef.  |
| DE | Hiermit erkläre Mikrotik SIA dass sich das gerät routerboard in übereinstimmung mit den grundlegenden anforderungen und den übrigen einschlägigen bestimmungen der richtlinie 2014/53/eg befindet. |
| EE | Käesolevaga kinnitab Mikrotik SIA seadme routerboard vastavust direktiivi 2014/53/eü põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.                          |
| GR | Με την παρούσα ο κατασκευαστής Mikrotik SIA δηλώνει ότι routerboard συμμορφώνεται προς τις ουσιαστικές απαιτήσεις και τις λοιπές σχετικές διατάξεις της οδηγίας 2014/53/εκ                         |
| ES | Por la presente, Mikrotik SIA declara que este routerboard cumple con los requisitos esenciales y otras exigencias relevantes de la directiva 2014/53/ec.  |
| IT | Con la presente Mikrotik SIA dichiara che questo routerboard è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/ce.                        |
| LV | Ar šo Mikrotik SIA deklarē, ka routerboard atbilst direktīvas 2014/53/ek būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.   |
| LT | Šiuo Mikrotik SIA deklaruoja, kad šis routerboard atitinka esminius reikalavimus ir kitas 2014/53/eb direktyvos nuostatas  |
| HU | A Mikrotik SIA izjavija, da je ta routerboard v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive 2014/53/es.   |
| NL | Hierbij verklaart Mikrotik SIA dat het toestel I routerboard in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/eg.                             |
| PL | Niniejszym Mikrotik SIA deklaruje że routerboard jest zgodny z zasadniczymi wymaganiami i innymi właściwymi postanowieniami dyrektywy 2014/53/ec.  |
| PT | Eu, Mikrotik SIA declaro que o routerboard cumpre os requisitos essenciais e outras provisões relevantes da directiva 2014/53/ec.  |
| RO | Prin prezenta, Mikrotik SIA declară că aparatul routerboard este în conformitate cu cerințele esențiale și cu alte prevederi pertinente ale directivei 2014/53/ce.                                 |
| SL | Mikrotik SIA tímto vyhlasuje, že routerboard splňa základné požiadavky a všetky príslušné ustanovenia smernice 2014/53/es.   |
| SI | Mikrotik SIA izjavlja, da je ta routerboard v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive 2014/53/es.   |
| FI | Mikrotik SIA vakuuttaa täten että routerboard tyyppinen laite on direktiivin 2014/53/ey oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.                             |
| SE | Härmed intygar Mikrotik SIA att denna routerboard är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/eg.                      |
| NO | Mikrotik SIA erklærer herved at routerboard er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/53/ef.   |

**EN. Instruction manual:** Connect the power adapter to turn on the device. Open 192.168.88.1 in your web browser, to configure it. More information on <http://mt.lv/help>  
**BG. Инструкции:** Свържете адаптера на захранване, за да включите устройството. Отворете 192.168.88.1 в уеб браузър, за да настроите продукта. Повече информация в <http://mt.lv/help>  
**CZ. Návod k použití:** Připojte napájecí adaptér k zapnutí přístroje. Otevřete 192.168.88.1 ve webovém prohlížeči pro konfiguraci produktu. Více informací najdete v <http://mt.lv/help>  
**DK. Instruktionsbog:** Tilslut strømadapteren for at tænde for enheden. Åbn 192.168.88.1 i en webbrowser til at konfigurere produktet. Mere information i <http://mt.lv/help>  
**FR. Mode d'emploi:** Connectez l'adaptateur d'alimentation pour allumer l'appareil. Ouvrez 192.168.88.1 dans un navigateur Web pour configurer le produit. Plus d'informations dans <http://mt.lv/help>  
**DE. Bedienungsanleitung:** Verbinden Sie das Netzteil, um das Gerät einzuschalten. Öffnen Sie 192.168.88.1 in einem Web-Browser, um das Produkt zu konfigurieren. Weitere Informationen im <http://mt.lv/help>  
**EE. Kasutusjuhend:** Ühendage toiteadapter seadme sisselülitamiseks. Avatud 192.168.88.1 in veebilehitseja seadistada toodet. Rohkem teavet <http://mt.lv/help>  
**ES. Manual de instrucciones:** Conecte el adaptador de alimentación para encender la unidad. Abra 192.168.88.1 en un navegador web para configurar el producto. Más información en <http://mt.lv/help>  
**IT. Manuale di istruzioni:** Collegare l'adattatore di alimentazione per accendere l'unità. Aprire 192.168.88.1 in un browser Web per configurare il prodotto. Maggiori informazioni in <http://mt.lv/help>  
**LV. Lietošanas instrukcija:** Pievienojiet Strāvas adapteri, lai ieslēgtu ierīci. Atvērt 192.168.88.1 ar interneta pārlūku, lai konfigurētu produktu. Plašāka informācija <http://mt.lv/help>  
**LT. Naudojimosi instrukcija:** Prijunkite maitinimo adapterį jūnkite įrenginį. Į interneto naršyklę 192.168.88.1 Atidarykite galite konfigūruoti gaminį. Daugiau informacijos rasite <http://mt.lv/help>  
**HU. Használati utasítás:** Csatlakoztassa a hálózati adaptert a készülék bekapcsolásához. Megnyitása 192.168.88.1 egy webböngészőben beállítani a terméket. Több információ <http://mt.lv/help>  
**NL. Handleiding:** Sluit voedingadapter aan op het apparaat in te schakelen. Open 192.168.88.1 in een webbrowser om het product te configureren. Meer informatie in <http://mt.lv/help>  
**PL. Instrukcja obsługi:** Podłącz adapter zasilania, aby włączyć urządzenie. Otwórz 192.168.88.1 w przeglądarce internetowej, aby skonfigurować urządzenie. Więcej informacji w <http://mt.lv/help>  
**PT. Manual de instruções:** Conecte o adaptador de alimentação para ligar o aparelho. Abra 192.168.88.1 em um navegador da web para configurar o produto. Mais informações em <http://mt.lv/help>  
**RO. Instrucțiuni de utilizare:** Conectați adaptorul de alimentare pentru a porni aparatul. Deschide 192.168.88.1 într-un browser web pentru a configura produsul. Mai multe informații în <http://mt.lv/help>  
**SK. Návod na použitie:** Pripojte napájací adaptér k zapnutiu prístroja. Otvorte 192.168.88.1 vo webovom prehliadači pre konfiguráciu produktu. Viac informácií nájdete v <http://mt.lv/help>  
**SI. Navodila:** Priključite napajalnik za vklop naprave. Odprite 192.168.88.1 v spletnem brskalniku nastaviti izdelek. Več informacij v <http://mt.lv/help>  
**FI. Käyttöohje:** Kytke virtalähde päälle laitteen. Avaa 192.168.88.1 in selaimen määrittää tuotteen. Lisää tietoa <http://mt.lv/help>  
**SE. Instruktionsmanual:** Anslut nätadaptern för att slå på enheten. Öppna 192.168.88.1 i en webbläsare för att konfigurera produkten. Mer information på <http://mt.lv/help>  
**NO. Bruksanvisningen:** Koble strømadapteren for å slå på enheten. Åpne 192.168.88.1 i en nettleser for å konfigurere produktet. Mer informasjon på <http://mt.lv/help>  
**GR. εγχειρίδιο οδηγιών:** Συνδέστε τον προσαρμογέα τροφοδοσίας για να ενεργοποιήσετε τη μονάδα. Ανοίξτε 192.168.88.1 σε ένα πρόγραμμα περιήγησης στο Web για να διαμορφώσετε το προϊόν. Περισσότερες πληροφορίες στο <http://mt.lv/help>

