

ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ V PRAZE

Fakulta biomedicínského inženýrství



Nastavení WiFi routeru

úloha ze cvičení předmětu

**F7PMIBMD-S – Bezpečnost při práci s biomedicínskými
daty**

magisterského studijního programu

Biomedicínská a klinická informatika

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1 Seznámení se s WiFi routerem tp-link TL-WR902AC

1. 1 Základní parametry

Parametry WiFi routeru tp-link TL-WR902AC, který jste dostali fyzicky k dispozici pro cvičení jsou uvedeny na webu zařízení, viz <https://www.tp-link.com/cz/home-networking/wifi-router/tl-wr902ac/#specifications> nebo <https://www.tp-link.com/en/search/?q=TL-WR902AC&t=product&p=1>

Základní parametry:

WIRELESS	
Standards	Wi-Fi 5 IEEE 802.11ac/n/a 5 GHz IEEE 802.11n/b/g 2.4 GHz
WiFi Speeds	AC750 5 GHz: 433 Mbps (802.11ac) 2.4 GHz: 300 Mbps (802.11n)
WiFi Range	2 Bedroom Houses 2× Fixed Antennas (Internal)
WiFi Capacity	Medium Dual-Band Allocate devices to different bands for optimal performance
Working Modes	Router Mode Access Point Mode Range Extender Mode Client Mode Hotspot Mode (WISP Mode)

HARDWARE	
Processor	Single-Core CPU
Ethernet Ports	1× 10/100 Mbps WAN/LAN Port
USB Support	1× USB 2.0 Port Supported Partition Formats: NTFS, FAT32 Supported Functions: FTP Server Media Server
Buttons	Reset Button Mode Switch
Power	5 V = 2 A

SECURITY

WiFi Encryption	WEP WPA WPA2
Network Security	SPI Firewall Access Control IP & MAC Binding Application Layer Gateway
Guest Network	1 × 5 GHz Guest Network 1 × 2.4 GHz Guest Network

SOFTWARE

Protocols	IPv4 IPv6
Parental Controls	URL Filtering Time Controls
WAN Types	Dynamic IP Static IP PPPoE PPTP L2TP
Quality of Service	QoS by Device
NAT Forwarding	Virtual Server Port Forwarding Port Triggering DMZ UPnP
IPTV	IGMP Proxy
DHCP	Address Reservation DHCP Client List Server
DDNS	NO-IP Comex DynDNS
Management	Tether App Webpage Check Web Emulator>

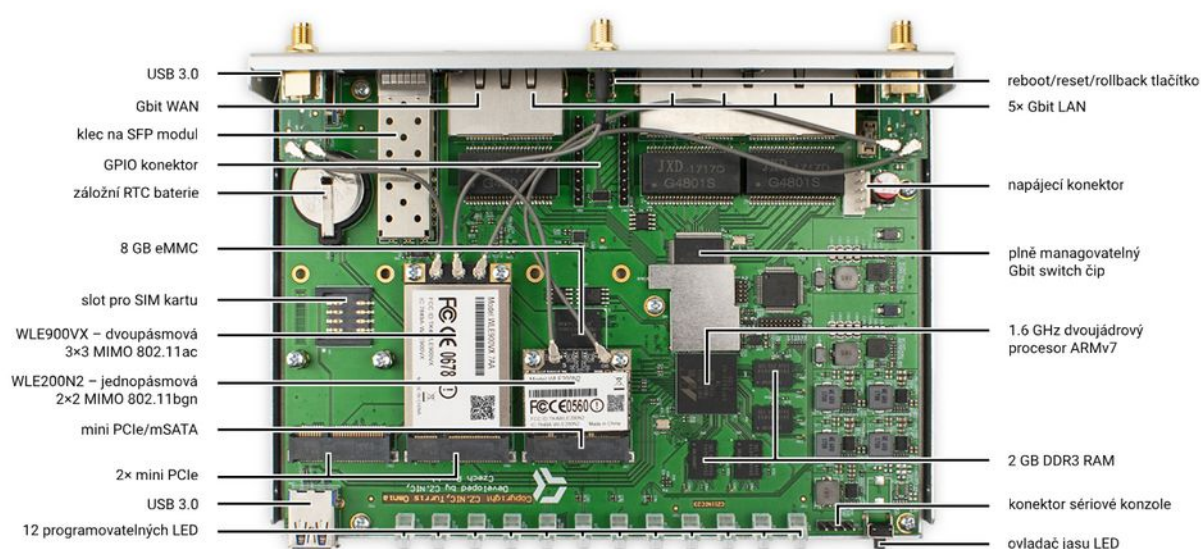
PHYSICAL	
Dimensions (W×D×H)	2.91 × 2.64 × 0.87 in (74 × 67 × 22mm)
Weight	56.7 g
Package Contents	Wi-Fi Router TL-WR902AC Power Adapter RJ45 Ethernet Cable Quick Installation Guide
OTHER	
System Requirements	Internet Explorer 11+, Firefox 12.0+, Chrome 20.0+, Safari 4.0+, or other JavaScript-enabled browser Cable or DSL Modem (if needed) Subscription with an internet service provider (for internet access)
Certifications	FCC, CE, RoHS
Environment	Operating Temperature: 0°C~40°C (32°F ~104°F) Storage Temperature: -40°C~70°C (-40°F ~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing
TEST DATA	
WiFi Transmission Power	CE: <20dBm(2.4GHz) <23dBm(5GHz)
WiFi Reception Sensitivity	11a 54M: -76dBm; 11ac VHT20 MCS8: -70dBm; 11ac VHT40 MCS9: -65.5dBm; 11ac VHT80 MCS9: -61.5dBm 2.4GHz: 11g 54M: -76dBm 11n; HT20 MCS7: -74dBm; 11n HT40 MCS7: -71dBm

Podrobné parametry a doporučená nastavení viz příložený 215-ti stránkový manuál ☺

Tip pro geeky a naopak úplně běžné uživatele dbající ve zvýšené míře na bezpečnost – skvělý český produkt **Turris Omnia**, viz <https://www.turris.cz/cs/omnia/predstaveni/>

Automatické update a upgrade, možnost nastavení úplně všeho, na co si člověk vzpomene i o čem nikdy v životě neslyšel ☺

Specifikace



Procesor	1.6 GHz dvoujádrový ARM
RAM – DDR3	2 GB
Úložiště	8 GB flash
LAN port 10/100/1000 Mbps (RJ-45)	5x
WAN port 10/100/1000 Mbps (RJ-45)	✓
SFP	✓
USB 3.0	2x
mPCIe slot	2x
mSATA / mPCIe	✓
Wi-Fi (mPCIe)	3x3 MIMO 802.11ac, 2x2 MIMO 802.11b/g/n
SIM slot	✓
Rozměry Š × H × V (mm), bez antén	190 × 135 × 40
Hmotnost (g)	1180
Provozní teplota	0 až 40 °C (40 až 104 °F)
Relativní vlhkost	10 až 90 %
Záruka	2 roky

Všechny informace o Turris Omnia najdete v [datasheetu](#) (PDF, 2.1 MB).

1. 2 Základní pracovní režimy WiFi routeru tp-link TL-WR902AC

Standardní bezdrátový router – volba na přepínači „Share ETH“



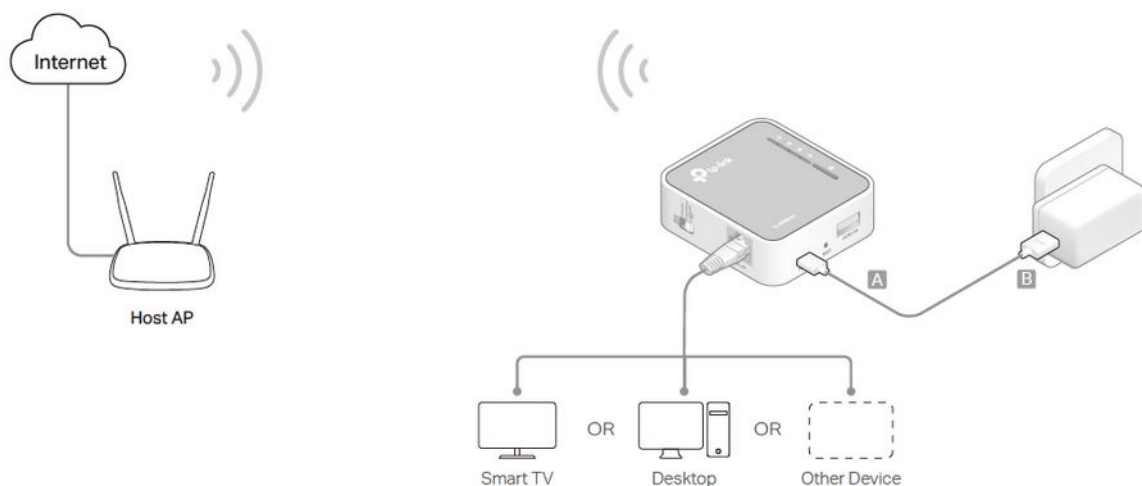
Access Point – volba na přepínači „AP/Rng Ext/Client“



Extender – volba na přepínači „AP/Rng Ext/Client“



Klient – volba na přepínači „AP/Rng Ext/Client“



Hotspot – volba na přepínači „Share Hotspot“



2 Nastavení WiFi routeru tp-link TL-WR902AC

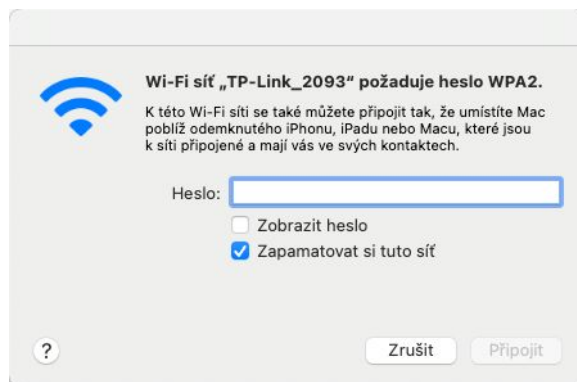
1) Vybalíme z krabice, přepínač dáme polohy „Share ETH“, připojíme do pevné ethernetové zásuvky a do rozvodné sítě



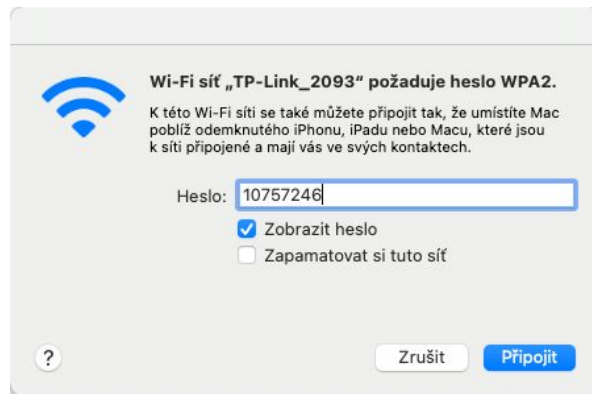
2) Připojíme se k nově vzniklé WiFi, jejíž SSID najdeme na spodní straně WiFi routeru:



Tedy např. na TP-Link_2093. Síť je už od výrobce primárně zabezpečená šifrováním WPA2, tedy objeví se okno



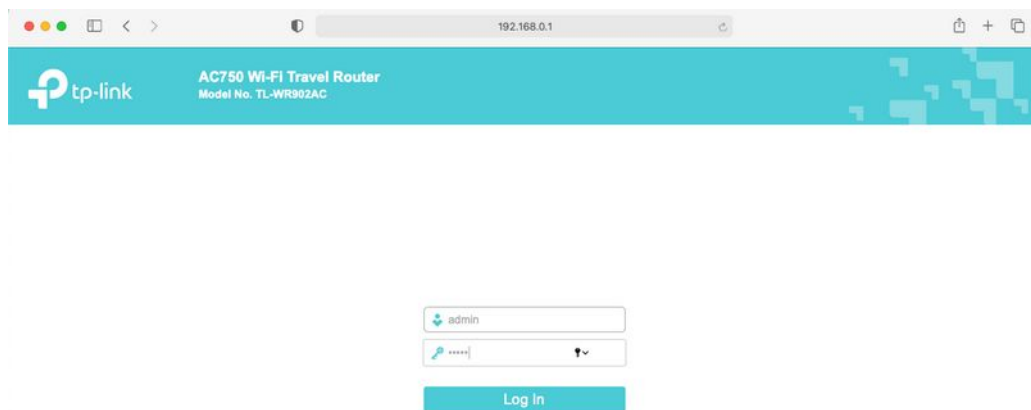
kam zadáme heslo „10757246“, které jsme opsali ze spodní strany WiFi routeru:



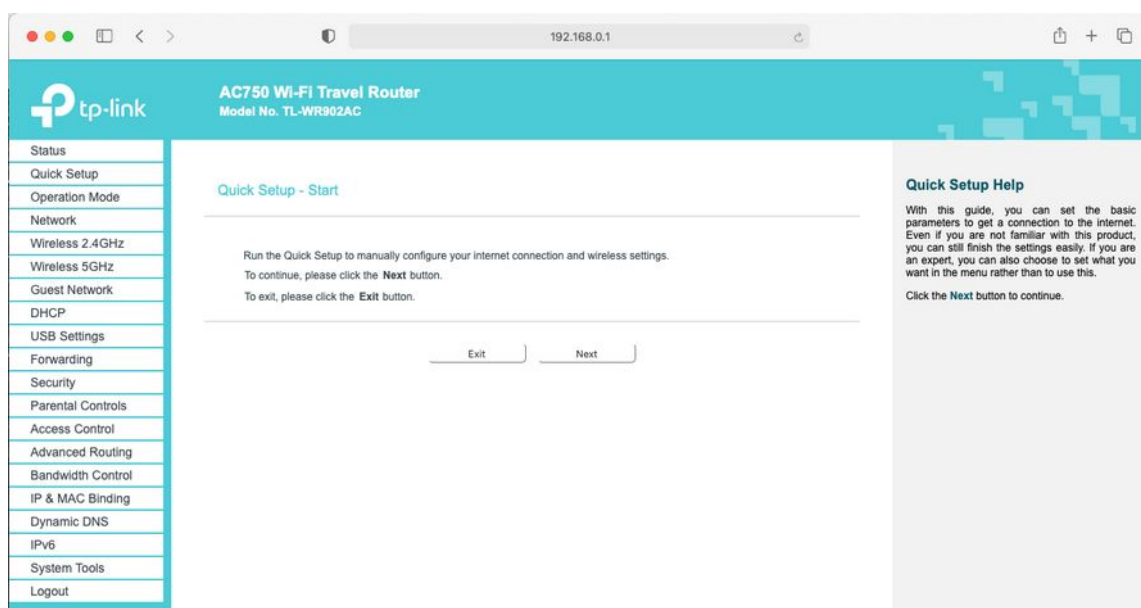
Klineme na „Připojit“.

3) Spustíme internetový prohlížeč a zadáme adresu <http://192.168.0.1/>

Do okna pak napíšeme „admin“, „admin“



a po stisknutí „Log In“ se dostaneme do nastavení WiFi routeru:



První věc, kterou provedeme, je velice důležitá změna uživatelského jména a hesla pro přístup k nastavení:

The screenshot shows the web interface of a TP-Link AC750 Wi-Fi Travel Router (Model No. TL-WR902AC). The left sidebar contains a navigation menu with the following items: Status, Quick Setup, Operation Mode, Network, Wireless 2.4GHz, Wireless 5GHz, Guest Network, DHCP, USB Settings, Forwarding, Security, Parental Controls, Access Control, Advanced Routing, Bandwidth Control, IP & MAC Binding, Dynamic DNS, IPv6, System Tools (highlighted), and Logout. The System Tools menu is expanded, showing sub-items: Time Settings, Diagnostic, Firmware Upgrade, Factory Defaults, Backup & Restore, Reboot, Password (selected), System Log, and Statistics. The main content area is titled 'Password' and includes a warning: 'Username and password can contain between 1 - 32 characters and may not include spaces.' Below this are input fields for 'Old User Name', 'Old Password', 'New User Name', 'New Password', and 'Confirm password'. At the bottom of the form are 'Save' and 'Clear All' buttons. On the right side, there is a 'Password Help' section with text explaining the importance of changing the default credentials and providing a note about character limits and spaces. It also instructs the user to click 'Save' when finished and 'Clear All' to clear the form.

Důležité je změnit jak uživatelské jméno, tak heslo.

Dalším krokem by měl být zákaz bezdrátového přístupu k nastavení WiFi routeru, tedy pokud bezdrátový přístup k nastavení z nějakého vážnějšího důvodu nepotřebujeme, aby se nám o to nemohl časem pokoušet nějaký „šikovný soused“ 😊

Nyní můžeme nastavit požadované vlastnosti. Začneme zazálohováním nastavení:
System Tools -> Backup a uložíme soubor s nastavením.

The screenshot shows the TP-Link AC750 Wi-Fi Travel Router web interface. The left sidebar contains a menu with options like Status, Quick Setup, Operation Mode, Network, Wireless 2.4GHz, Wireless 5GHz, Guest Network, DHCP, USB Settings, Forwarding, Security, Parental Controls, Access Control, Advanced Routing, Bandwidth Control, IP & MAC Binding, Dynamic DNS, IPv6, System Tools (highlighted), and Logout. The main content area is titled 'Backup & Restore'. It features a 'Backup' button and a 'Restore' button. Below the buttons, there is a text field for 'Configuration File' with a dropdown menu showing 'Vybrat soubor' (Select file) and 'není vybrán žádný soubor' (no file selected). A note states: 'You can restore a previously saved configuration bin file.' To the right, there is a 'Backup & Restore Help' section with instructions on how to backup and restore the configuration, and a note about the restoring process.

Dále upgradujeme firmware. Podíváme se na System Tools -> Firmware Upgrade

The screenshot shows the TP-Link AC750 Wi-Fi Travel Router web interface. The left sidebar is the same as in the previous screenshot, with 'System Tools' highlighted. The main content area is titled 'Firmware Upgrade'. It displays the 'Firmware File Path' with a dropdown menu showing 'Vybrat soubor' (Select file) and 'není vybrán žádný soubor' (no file selected). Below this, it shows the 'Firmware version' as '0.9.1 0.3 v0089.0 Build 191018 Rel.34369n(4555)' and the 'Hardware version' as 'TL-WR902AC v3 00000001'. There is an 'Upgrade' button. To the right, there is a 'Firmware Upgrade Help' section with instructions on how to upgrade the firmware, a list of steps, and a note about the upgrade process.

A ze stránek www.tp-link.com si stáhneme poslední verzi firmware.

Velice důležité je vybrat správné parametry, jinak si WiFi routeru můžeme vyrobit pouze okrasný předmět bez původní funkce. Vidíme, že máme HW verzi 3, tedy vybereme V3

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tp-link DOMÁCÍ síť CHYTRÁ DOMÁCNOST BUSINESS ISP

Ke stažení
Často kladené dotazy
Forum technické podpory
Kontaktování technické podpory
Seznam kompatibility
Emulátory TP-Link
Centrum kódů GPL

Stáhnout pro TL-WR902AC V3

Prosím zvolte si hardwarovou verzi:
V3

> Jak zjistit hardwarovou verzi vašeho TP-Link zařízení?

Modely a hardwarové verze se liší v závislosti na regionu. Prosím ujistěte se o detailech pokud zvažujete nákup.

AC750 Bezdrátový router na cesty
TL-WR902AC

Product Overview
[TL-WR902AC\(EU\)_V3_Datasheet](#)

Dokument
[Portable Router\(EU2-16Languages\)](#)
[Portable Router\(EU1-13Languages\)_Quick Installation Guide](#)
[TL-WR902AC\(EU\)_V3_Quick Installation Guide](#)
[TL-WR902AC\(EU\)_V3_User Guide](#)

Setup Video **Nejčastější dotazy** **Firmware** **Kompatibilita**
GPL Code **Emulátory**

Setup Video

What should I do if I cannot access the internet? - Using a DSL modem and a TP-Link router
If you can't access the internet using a DSL r
[Zjistit více](#)

What should I do if I cannot access the internet? - Using a cable modem and a TP-Link router
If you can't access the internet using a cable
[Zjistit více](#)

Dále pak „Firmware“ a stáhneme si příslušný soubor, v tomto případě složku se souborem „TL-WR902ACv3_EU_0.9.1_0.3_up_boot[191018-rel34369].bin“.

Setup Video	Nejčastější dotazy	Firmware	Kompatibilita
GPL Code	Emulátory		

Firmware

A firmware update can resolve issues that the previous firmware version may have and improve its current performance.

To Upgrade

IMPORTANT: To prevent upgrade failures, please read the following before proceeding with the upgrade process

- **Please upgrade firmware from the local TP-Link official website of the purchase location for your TP-Link device, otherwise it will be against the warranty. Please click [here](#) to change site if necessary.**
- Please verify the hardware version of your device for the firmware version. Wrong firmware upgrade may damage your device and void the warranty. (Normally V1.x=V1)
[Jak zjistit hardwarovou verzi vašeho TP-Link zařízení?](#)
- **Do NOT turn off the power during the upgrade process, as it may cause permanent damage to the product.**
- To avoid wireless disconnect issue during firmware upgrade process, it's recommended to upload firmware with wired connection unless there is no LAN/Ethernet port on your TP-Link device.
- It's recommended that users stop all Internet applications on the computer, or simply disconnect Internet line from the device before the upgrade.
- Use decompression software such as WinZIP or WinRAR to extract the file you download before the upgrade.

TL-WR902AC(EU)_V3_191018 		
Datum vydání: 2019-12-13	Jazyk: Angličtina	Velikost souboru: 7.95 MB
New Features/Enhancements: 1. Added 3/4G Mode. 2. Supported SMB V2. Notes: For TL-WR902AC(EU) V3.		

TL-WR902AC(EU)_V3_170828 		
Datum vydání: 2017-08-28	Jazyk: Angličtina	Velikost souboru: 7.15 MB
Modifications and Bug Fixes: New Features/Enhancements:		

Vidíme, že máme stejnou verzi firmware, tedy tento krok můžeme vynechat.

Ještě si můžeme všimnout, že pod tlačítkem „Kompatibilita“ můžeme najít seznam podporovaných USB modemů 3G/3,75G, které z našeho WiFi routeru mohou udělat WiFi síť k připojení k Internetu přes mobilního operátora, máme-li příslušný USB modem a datovou SIM kartu.

Vrátíme se tedy k nastavení našeho WiFi routeru. Pro začátek můžeme využít nastavení pomocí Quick Setupu, tedy Quick Setup -> tlačítko Next

The screenshot shows the 'Quick Setup - Start' screen of the TP-Link AC750 Wi-Fi Travel Router. On the left is a navigation menu with 'Quick Setup' highlighted. The main area contains instructions to run the Quick Setup to manually configure the internet connection and wireless settings. It includes 'Exit' and 'Next' buttons. A 'Quick Setup Help' sidebar on the right explains the purpose of the guide.

The screenshot shows the 'Quick Setup - Operation Mode' screen. The navigation menu on the left remains the same. The main area prompts the user to 'Choose Operation Mode' between 'Wireless Router' (selected) and '3G/4G Router'. It provides brief descriptions for each mode. 'Back' and 'Next' buttons are at the bottom. The 'Operation Mode Help' sidebar on the right details the differences between the two modes.

The screenshot shows the 'Quick Setup - WAN Connection Type' screen. The navigation menu on the left is consistent. The main area asks the user to 'choose one type below according to your ISP'. It lists several options: 'Auto-Detect', 'Dynamic IP (Most common option)', 'Static IP', 'PPPoE/Russian PPPoE', 'L2TP/Russian L2TP', and 'PPTP/Russian PPTP'. A note mentions that users in some areas should contact their ISP. 'Back' and 'Next' buttons are at the bottom. The 'WAN Connection Type Help' sidebar on the right provides detailed instructions for each connection type.

AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

- Status
- Quick Setup**
- Operation Mode
- Network
 - Wireless 2.4GHz
 - Wireless 5GHz
- Guest Network
- DHCP
- USB Settings
- Forwarding
- Security
- Parental Controls
- Access Control
- Advanced Routing
- Bandwidth Control
- IP & MAC Binding
- Dynamic DNS
- IPv6
- System Tools
- Logout

Quick Setup - MAC Clone

MAC(Media Access Control) address is a unique identifier that identifies your computer or device in the network. Some of the ISPs may register the MAC address of your computer which firstly connects to their services, and would not allow the Internet connection for any new computer or router. TP-Link router can help you to "clone" or replicate the registered MAC address of your first computer.

In most of the cases, there is no need to clone the MAC address. But if you can't get the Internet connection after Quick Setup, please run it again and clone the MAC address for a try.

☒ No, I do NOT need to clone MAC address.
☐ YES, I need to clone MAC address.

Note: please make sure your current computer is the one initially connected to your router or ISP's device.

MAC Clone Help

Most Cable ISPs (Internet Service Provider) register the unique MAC Address from the wired connection on your MAIN COMPUTER - the last computer used to be connected with the Cable Modem and had Internet connection.

If you add a router to the network, your ISP may not recognize the MAC address of the router and not allow it to connect.

However, TP-Link router can "clone" or replicate the registered MAC address of the MAIN COMPUTER. Then your ISP can release the Internet connection to the router and all the computers.

Click the Next button to continue, or the Back button to return to the previous page.

AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

- Status
- Quick Setup**
- Operation Mode
- Network
 - Wireless 2.4GHz
 - Wireless 5GHz
- Guest Network
- DHCP
- USB Settings
- Forwarding
- Security
- Parental Controls
- Access Control
- Advanced Routing
- Bandwidth Control
- IP & MAC Binding
- Dynamic DNS
- IPv6
- System Tools
- Logout

Quick Setup - Wireless Dual Band Selection

Please select or clear the check box to enable or disable a given radio band.

☒ 2.4GHz
☒ 5GHz

Dual Band Selection Help

The internet setting is finished, please choose the wireless band of the router.

Advantages of 5GHz:

The 5GHz band is less likely to be congested. The 2.4GHz frequency range is much more prone to interference, as it is commonly used by other wireless networks in the area, as well as cordless phones, garage door openers and other home appliances and consumer products.

Disadvantages of 5GHz:

In general, the higher the frequency of a wireless signal, the shorter its range. Thus, 2.4GHz networks cover a substantially larger range than 5GHz wireless networks. In particular, the higher frequency wireless signals of 5GHz networks do not penetrate solid objects nearly as well as 2.4GHz signals, limiting their reach inside homes.

AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

- Status
- Quick Setup**
- Operation Mode
- Network
 - Wireless 2.4GHz
 - Wireless 5GHz
- Guest Network
- DHCP
- USB Settings
- Forwarding
- Security
- Parental Controls
- Access Control
- Advanced Routing
- Bandwidth Control
- IP & MAC Binding
- Dynamic DNS
- IPv6
- System Tools
- Logout

Quick Setup - Wireless 2.4GHz

Wireless Network Name: (Also called SSID)

Security:

☒ **WPA2-PSK (Recommended)**
Wireless Password:
(Enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

☐ Disable Wireless Security

☒ **More Advanced Wireless Settings**

Band: 2.4GHz
Mode:
Channel Width:
Channel:

Wireless Help

- Wireless Network Name** - Enter a string of up to 32 characters. The same Name (SSID) must be assigned to all wireless devices in your network. The default SSID is set to be TP-Link_XXXX(or TP-Link_XXXX.5G)XXXX indicates the last unique four characters of each Router's MAC address), which can ensure your wireless network security. But it is recommended strongly that you change your network's name (SSID) to a different value. This value is case-sensitive. For example, MYSSID is NOT the same as MySSID.
- Band** - This field determines the frequency band the radio will work on, there are two bands you can choose: 2.4G or 5G, please pick up suitable frequency band according to the policy of local government and your requirement.
- Mode** - This field determines the wireless mode which the Router works on.
- Channel Width** - The bandwidth of the wireless channel.
- Channel** - This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point. If you select auto, then the AP will select the best channel automatically.

You can select one of the following security options:

- Disable Security** - The wireless security function can be enabled or disabled. If disabled, the wireless stations will be able to connect the Router without encryption. It is recommended strongly that you choose one of following options to enable security.
- WPA2-PSK** - Select WPA based on pre-shared passphrase.
 - Wireless Password** - You can enter ASCII characters. The length should be between 8 and 63 characters. Please note that the key is case sensitive.

Zde je, samozřejmě, nutné ponechat jak WPA2-PSK, tak změnit jak SSID, tak heslo k němu. Vyberme jako školní příklad FBMI24GHzKH a 1234567890123. Takhle bychom, samozřejmě, ani SSID a už vůbec ne heslo nevolili, ale bude se nám s tím lépe dále pracovat.

tp-link AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

Status
Quick Setup
Operation Mode
Network
Wireless 2.4GHz
Wireless 5GHz
Guest Network
DHCP
USB Settings
Forwarding
Security
Parental Controls
Access Control
Advanced Routing
Bandwidth Control
IP & MAC Binding
Dynamic DNS
IPv6
System Tools
Logout

Quick Setup - Wireless 2.4GHz

Wireless Network Name: FBMI24GHzKH (Also called SSID)

Security:
☒ WPA2-PSK (Recommended)
 Wireless Password: 1234567890123
 (Enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)
☐ Disable Wireless Security

☒ More Advanced Wireless Settings

Band: 2.4GHz
 Mode: 11bgn mixed
 Channel Width: Auto
 Channel: Auto

Back Next

Wireless Help

- Wireless Network Name - Enter a string of up to 32 characters. The same Name (SSID) must be assigned to all wireless devices in your network. The default SSID is set to be TP-Link_XXXX (or TP-Link_XXXX_5G) (XXXX indicates the last unique four characters of each Router's MAC address), which can ensure your wireless network security. But it is recommended strongly that you change your network's name (SSID) to a different value. This value is case-sensitive. For example, MYSSID is NOT the same as myssid.
- Band - This field determines the frequency band the radio will work on, there are two bands you can choose: 2.4G or 5G, please pick up suitable frequency band according to the policy of local government and your requirement.
- Mode - This field determines the wireless mode which the Router works on.
- Channel Width - The bandwidth of the wireless channel.
- Channel - This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point. If you select auto, then the AP will select the best channel automatically.

You can select one of the following security options:

- Disable Security - The wireless security function can be enabled or disabled. If disabled, the wireless stations will be able to connect the Router without encryption. It is recommended strongly that you choose one of following options to enable security.
- WPA2-PSK - Select WPA based on pre-shared passphrase.
 - Wireless Password - You can enter ASCII characters. The length should be between 8 and 63 characters. Please note that the key is case sensitive.

Podobně nastavíme i parametry pro 5GHz:

tp-link AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

Status
Quick Setup
Operation Mode
Network
Wireless 2.4GHz
Wireless 5GHz
Guest Network
DHCP
USB Settings
Forwarding
Security
Parental Controls
Access Control
Advanced Routing
Bandwidth Control
IP & MAC Binding
Dynamic DNS
IPv6
System Tools
Logout

Quick Setup - Wireless 5GHz

Wireless Network Name: FBMI5GHzKH (Also called SSID)

Security:
☒ WPA2-PSK (Recommended)
 Wireless Password: 7894561230123
 (Enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)
☐ Disable Wireless Security

☒ More Advanced Wireless Settings

Band: 5GHz
 Mode: 11a/n/ac mixed
 Channel Width: Auto
 Channel: Auto

Back Next

Wireless Help

- Wireless Network Name - Enter a string of up to 32 characters. The same Name (SSID) must be assigned to all wireless devices in your network. The default SSID is set to be TP-Link_XXXX (or TP-Link_XXXX_5G) (XXXX indicates the last unique four characters of each Router's MAC address), which can ensure your wireless network security. But it is recommended strongly that you change your network's name (SSID) to a different value. This value is case-sensitive. For example, MYSSID is NOT the same as myssid.
- Band - This field determines the frequency band the radio will work on, there are two bands you can choose: 2.4G or 5G, please pick up suitable frequency band according to the policy of local government and your requirement.
- Mode - This field determines the wireless mode which the Router works on.
- Channel Width - The bandwidth of the wireless channel.
- Channel - This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point. If you select auto, then the AP will select the best channel automatically.

You can select one of the following security options:

- Disable Security - The wireless security function can be enabled or disabled. If disabled, the wireless stations will be able to connect the Router without encryption. It is recommended strongly that you choose one of following options to enable security.
- WPA2-PSK - Select WPA based on pre-shared passphrase.
 - Wireless Password - You can enter ASCII characters. The length should be between 8 and 63 characters. Please note that the key is case sensitive.

Nastavení uložíme:

AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

Quick Setup - Confirm

The Quick Setup is complete. Please confirm all parameters below. Click BACK to modify any settings or click SAVE to save and apply your configurations.

Parameters Summary:

Connection Type:	Dynamic IP
Wireless 2.4GHz:	Enabled
Wireless Network Name(SSID):	FBMi24GHzKH
Channel:	Auto
Mode:	11bgn mixed
Channel Width:	Auto
Security:	WPA2-Personal
Wireless Password:	1234567890123
Wireless 5GHz:	Enabled
Wireless Network Name(SSID):	FBMi5GHzKH
Channel:	Auto
Mode:	11a/n/ac mixed
Channel Width:	Auto
Security:	WPA2-Personal
Wireless Password:	7894561230123

[Back](#) [Save](#)

Confirm Help
Please confirm all parameters.
Click the **Save** button to save all the parameters, or the **Back** button to return to the previous page.

Nyní se musíme připojit už na naši novou WiFi síť s SSID „FBMi24GHzKH“ a můžeme se podívat na status, kde vidíme přehledně nastavené parametry:

AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

Status

Firmware Version: 0.9.1.0.3 v0089.0 Build 191018 Rel.34369n(4555)
Hardware Version: TL-WR902AC v3 00000001

LAN

MAC Address:	D8:07:B6:E5:20:93
IP Address:	192.168.0.1
Subnet Mask:	255.255.255.0

Wireless 2.4GHz

Operation Mode:	Router
Wireless Radio:	Enabled
Name(SSID):	FBMi24GHzKH
Mode:	11bgn mixed
Channel:	Auto(Channel 3)
Channel Width:	Auto
MAC Address:	D8:07:B6:E5:20:93

Wireless 5GHz

Operation Mode:	Router
Wireless Radio:	Enabled
Name(SSID):	FBMi5GHzKH
Mode:	11a/n/ac mixed
Channel:	Auto(Channel 36)
Channel Width:	Auto
MAC Address:	D8:07:B6:E5:20:92

WAN

MAC Address:	D8:07:B6:E5:20:94
IP Address:	10.0.1.116(Dynamic IP)
Subnet Mask:	255.255.255.0
Default Gateway:	10.0.1.138
DNS Server:	10.0.1.138 0.0.0.0

System Up Time: 0 day(s) 01:20:34 [Refresh](#)

Status Help
The Status page displays the Router's current status and configuration. All information is read-only.
LAN - The following parameters apply to the LAN port of the Router. You can configure them on the Network -> LAN page.

- MAC Address - The physical address of the Router, as seen from the LAN.
- IP Address - The LAN IP address of the Router.
- Subnet Mask - The subnet mask associated with LAN IP address.

Wireless - These are the current settings or information for Wireless. You can configure them in the Wireless -> Basic Settings page.

- Operation Mode - Indicates the mode which the device is working on.
- Wireless Radio - Indicates whether the wireless radio feature of the Router is enabled or disabled.
- Name(SSID) - The SSID of the Router.
- Mode - The current wireless mode which the Router works on.
- Channel - The current wireless channel in use.
- Channel Width - The bandwidth of the wireless channel.
- MAC Address - The physical address of the Router, as seen from the WLAN.

WAN - The following parameters apply to the WAN ports of the Router. You can configure them in the Network -> WAN page.

- MAC Address - The physical address of the WAN port, as seen from the Internet.
- IP Address - The current WAN (Internet) IP Address. This field will be blank or 0.0.0.0 if the IP Address is assigned dynamically and there is no connection to Internet.
- Subnet Mask - The subnet mask associated with the WAN IP Address.
- Default Gateway - The Gateway currently used by the Router is shown here.
- DNS Server - The DNS (Domain Name System) Server IP addresses currently used by the Router. Multiple DNS IP settings are common. Usually, the first available DNS Server is used.
- Online Time - The time that you are online. When you use PPPoE as WAN connection type, the online time is displayed here.

Secondary Connection - The Secondary Connection will be shown in this area.
System Up Time - The length of time since the Router was last powered on or reset.
Click the **Refresh** button to get the latest status and settings of the Router.

Donastavíme následující parametry:

Zakážeme WPS jak pro 2,4GHz, tak pro 5GHz:

tp-link AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

WPS (Wi-Fi Protected Setup)

WPS: **Enabled**

Current PIN: **10757246**

☐ Disable device PIN

Add a new device:

Wi-Fi Protected Setup Help

WPS function will help you add a new device to the network quickly. If the new device supports Wi-Fi Protected Setup and is equipped with a configuration button, you can add it to the network by pressing the configuration button on the device and then press the button on the Router within two minutes. The status LED on the Router will be on for five minutes if the device has been successfully added to the network. If the new device supports Wi-Fi Protected Setup and the connection way using PIN, you can add it to the network by entering the Router's PIN.

- WPS Status - Enable or disable the WPS function here.
- Current PIN - The current value of the Router's PIN displayed here. The default PIN of the Router can be found in the label or User Guide.
- Restore PIN - Restore the PIN of the Router to its default.
- Generate New PIN - Click this button, and then you can get a new random value for the Router's PIN. You can ensure the network security by generating a new PIN.
- Add Device - You can add the new device to the existing network manually by clicking this button.

Note: The WPS function cannot be configured if the Wireless Function of the Router is disabled. Please make sure the Wireless Function is enabled before configuring the WPS.

tp-link AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

WPS (Wi-Fi Protected Setup)

WPS: **Disabled**

Current PIN: **10757246**

☐ Disable device PIN

Add a new device:

Wi-Fi Protected Setup Help

WPS function will help you add a new device to the network quickly. If the new device supports Wi-Fi Protected Setup and is equipped with a configuration button, you can add it to the network by pressing the configuration button on the device and then press the button on the Router within two minutes. The status LED on the Router will be on for five minutes if the device has been successfully added to the network. If the new device supports Wi-Fi Protected Setup and the connection way using PIN, you can add it to the network by entering the Router's PIN.

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AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

- Status
- Quick Setup
- Operation Mode
- Network
- Wireless 2.4GHz
- Wireless 5GHz**
 - Basic Settings
 - WPS
 - Wireless Security
 - Wireless MAC Filtering
 - Wireless Advanced
 - Wireless Statistics
- Guest Network
- DHCP
- USB Settings
- Forwarding
- Security
- Parental Controls
- Access Control
- Advanced Routing
- Bandwidth Control
- IP & MAC Binding
- Dynamic DNS
- IPv6
- System Tools
- Logout

WPS (Wi-Fi Protected Setup)

WPS: **Enabled** [Disable](#)

Current PIN: **10757246** [Restore PIN](#) [Generate New PIN](#)

☐ Disable device PIN

Add a new device: [Add device](#)

Wi-Fi Protected Setup Help

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AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

- Status
- Quick Setup
- Operation Mode
- Network
- Wireless 2.4GHz
- Wireless 5GHz**
 - Basic Settings
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 - Wireless Security
 - Wireless MAC Filtering
 - Wireless Advanced
 - Wireless Statistics
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- Forwarding
- Security
- Parental Controls
- Access Control
- Advanced Routing
- Bandwidth Control
- IP & MAC Binding
- Dynamic DNS
- IPv6
- System Tools
- Logout

WPS (Wi-Fi Protected Setup)

WPS: **Disabled** [Enable](#)

Current PIN: **10757246** [Restore PIN](#) [Generate New PIN](#)

☐ Disable device PIN

Add a new device: [Add device](#)

Wi-Fi Protected Setup Help

WPS function will help you add a new device to the network quickly. If the new device supports Wi-Fi Protected Setup and is equipped with a configuration button, you can add it to the network by pressing the configuration button on the device and then press the button on the Router within two minutes. The status LED on the Router will be on for five minutes if the device has been successfully added to the network. If the new device supports Wi-Fi Protected Setup and the connection way using PIN, you can add it to the network by entering the Router's PIN.

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- Current PIN - The current value of the Router's PIN displayed here. The default PIN of the Router can be found in the label or User Guide.
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- Add Device - You can add the new device to the existing network manually by clicking this button.

Note: The WPS function cannot be configured if the Wireless Function of the Router is disabled. Please make sure the Wireless Function is enabled before configuring the WPS.

Pokud WPS často používáme a chceme, alespoň změníme PIN od výrobce a použijeme nějaký jiný.

Dále nastavíme síť pro hosty pro 2,4GHz a 5GHz:

tp-link AC750 Wi-Fi Travel Router Model No. TL-WR902AC

Guest Network

Allow Guests To Access My Local Network:

Guest Network Isolation:

Guest Network Bandwidth Control:

Band Select:

Guest Network: ☐ Enable ☒ Disable

Network Name: TP-Link_Guest_2093

Max Guests number: 32

Security:

Access Time:

Click the schedule table or use the "Add" button to choose the period on which you need the guest network off automatically!
The Schedule is based on the time of the Router. The time can be set in "System Tools -> Time Settings".

Wireless Schedule: ☐ Enable ☒ Disable

Apply To:

Start Time:

End Time:

Add

Time	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00
Sun.															
Mon.															
Tues.															
Wed.															
Thur.															
Fri.															
Sat.															

Clear Schedule

Save

Guest Network Wireless Settings

You can configure Guest Network Wireless Settings on this page.

- Allow Guests To Access My Local Network - If enabled, guests can communicate with hosts.
- Guest Network Isolation - If enabled, one guest can not communicate with another.
- Enable Guest Network Bandwidth Control - If enabled, the Guest Network Bandwidth Control rules will take effect.
- Guest Network(2.4G/5G) - Enabled or disable the Guest Network function here
- Network Name - Enter a value of up to 32 characters. The same Name(SSID) must be assigned to all wireless devices in your Guest Network.
- Max Guests number - Maximum guests (1-32)
- Security - You can configure the security of Guest Network here.
- Access Time
 - Timeout - If the countdown timer hits zero, guest network will close.
 - Schedule - During this time the wireless stations could not access the guest network.

Note:

The range of bandwidth for Guest Network is calculated according to the setting of Bandwidth Control on the page Bandwidth Control->Control Settings.

tp-link AC750 Wi-Fi Travel Router Model No. TL-WR902AC

Guest Network

Allow Guests To Access My Local Network:

Guest Network Isolation:

Guest Network Bandwidth Control:

Band Select:

Guest Network: ☒ Enable ☐ Disable

Network Name: FBM24GHzXHGuest

Max Guests number: 32

Security:

Authentication Type:

Encryption:

Wireless Password: 1472583690123
(Enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

Group Key Update Period: 0 (seconds, minimum is 30, 0 means no update)

Access Time:

Click the schedule table or use the "Add" button to choose the period on which you need the guest network off automatically!
The Schedule is based on the time of the Router. The time can be set in "System Tools -> Time Settings".

Wireless Schedule: ☐ Enable ☒ Disable

Apply To:

Start Time:

End Time:

Add

Time	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00
Sun.															
Mon.															
Tues.															
Wed.															
Thur.															
Fri.															
Sat.															

Clear Schedule

Save

Guest Network Wireless Settings

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- Enable Guest Network Bandwidth Control - If enabled, the Guest Network Bandwidth Control rules will take effect.
- Guest Network(2.4G/5G) - Enabled or disable the Guest Network function here
- Network Name - Enter a value of up to 32 characters. The same Name(SSID) must be assigned to all wireless devices in your Guest Network.
- Max Guests number - Maximum guests (1-32)
- Security - You can configure the security of Guest Network here.
- Access Time
 - Timeout - If the countdown timer hits zero, guest network will close.
 - Schedule - During this time the wireless stations could not access the guest network.

Note:

The range of bandwidth for Guest Network is calculated according to the setting of Bandwidth Control on the page Bandwidth Control->Control Settings.

AC750 Wi-Fi Travel Router
Model No. TL-WR902AC

- Status
- Quick Setup
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- Network
- Wireless 2.4GHz
- Wireless 5GHz
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- DHCP
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- Access Control
- Advanced Routing
- Bandwidth Control
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- IPv6
- System Tools
- Logout

Guest Network

Allow Guests To Access My Local Network: ☒ Enable

Guest Network Isolation: ☒ Enable

Guest Network Bandwidth Control: ☐ Disable

Band Select: 5GHz

Guest Network: ☒ Enable ☐ Disable

Network Name: FBMSGHZKHGuest

Max Guests number: 32

Security: WPA/WPA2 - Personal

Authentication Type: WPA2-PSK

Encryption: AES

Wireless Password: 3692561470123

between 8 and 64.)

Group Key Update Period: 0 (seconds, minimum is 30, 0 means no update)

Access Time: ☒ Schedule

Click the schedule table or use the 'Add' button to choose the period on which you need the guest network off automatically!

The Schedule is based on the time of the Router. The time can be set in "System Tools -> Time Settings".

Wireless Schedule: ☐ Enable ☒ Disable

Apply To: Each Day

Start Time: 00:00

End Time: 24:00

Add

Time	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00
Sun.															
Mon.															
Tues.															
Wed.															
Thur.															
Fri.															
Sat.															

Clear Schedule

Save

Guest Network Wireless Settings

You can configure Guest Network Wireless Settings on this page.

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- Guest Network Isolation - If enabled, one guest can not communicate with another.
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- Network Name - Enter a value of up to 32 characters. The same Name(SSID) must be assigned to all wireless devices in your Guest Network.
- Max. Guests number - Maximum guests (1-32)
- Security - You can configure the security of Guest Network here.
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 - Timeout - If the countdown timer hits zero, guest network will close.
 - Schedule - During this time the wireless stations could not access the guest network.

Note:
The range of bandwidth for Guest Network is calculated according to the setting of Bandwidth Control on the page Bandwidth Control->Control Settings.

3 Úkoly a náměty pro další studium

- 1) Vyzkoušejte výše uvedená nastavení a zamyslete se nad tím, proč jsou tato nastavení vhodná pro nejširší skupinu uživatelů.
- 2) Za pomoci manuálu a emulátorů na webu výrobce (viz tlačítko „Emulátory“) projděte všechna bezpečnostní nastavení a zkuste porozumět jejich smyslu. Význam dohledejte z kvalitních veřejně dostupných zdrojů.

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tp-link DOMÁCÍ SÍŤ CHYTRÁ DOMÁCNOST BUSINESS ISP Podpora Česká republika / Čeština

Ke stažení
Často kladené dotazy
Forum technické podpory
Kontaktování technické podpory
Seznam kompatibility
Emulátory TP-Link
Centrum kódů GPL

Stáhnout pro TL-WR902AC V3

Prosím zvolte si hardwarovou verzi:
V3

> Jak zjistit hardwarovou verzi vašeho TP-Link zařízení?

Modely a hardwarové verze se liší v závislosti na regionu. Prosím ujistěte se o detailech pokud zvažujete nákup.

AC750 Bezdrátový router na cesty
TL-WR902AC

Product Overview
[TL-WR902AC\(EU\)_V3_Datasheet](#)
Dokument
[Portable Router\(EU2-16Languages\)](#)
[Portable Router\(EU1-13Languages\)_Quick Installation Guide](#)
[TL-WR902AC\(EU\)_V3_Quick Installation Guide](#)
[TL-WR902AC\(EU\)_V3_User Guide](#)

Setup Video Nejčastější dotazy Firmware Kompatibilita
GPL Code Emulátory

Setup Video

What should I do if I cannot access the internet? - Using a DSL modem and a TP-Link router
If you can't access the internet using a DSL r
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What should I do if I cannot access the internet? - Using a cable modem and a TP-Link router
If you can't access the internet using a cable
[Zjistit více](#)