

## This document describes how to set up dynamic DNS service for TCP/IP voltmeter.

You can use three different services:

[www.no-ip.com](http://www.no-ip.com)

[www.dyn.com](http://www.dyn.com)

[www.dnsomatic.com](http://www.dnsomatic.com)

### 1 Open web page [www.dyndns.com](http://www.dyndns.com)



## 2 Create an account.

DynDNS.com - Managed DNS, Domain Names and more! - Windows Internet Explorer

http://www.dyndns.com/

DynDNS.com  
by Dynamic Network Services Inc.

What are you looking for? Search

Why DynDNS.com? Services & Pricing Support Have an account? Sign In

**Rock solid, scalable DNS that just WORKS**  
We offer DNS services on every level from home user to enterprise

Whether you are a home user, a small & medium business, or all the way up to enterprise... we understand you are busy! Our tools are easy, yet Robust. Let us simplify your to do list with our proven services.

Get Started

Username

Password

Log in

[Forgot Your Password?](#)

[Create an Account](#)

### 3 Enter name and password.

Create DynDNS.com Account or Login - Windows Internet Explorer

https://www.dyndns.com/account/entrance/

Why DynDNS.com? Services & Pricing Support

My Account

Create Account

Login

Lost Password?

My Cart  
0 items

**WE'RE HIRING**

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## Create an account or log in to continue

**Username** remote-control


**Password** ●●●●●●

**Confirm password** ●●●●●●

**Email** marcincin@szm.sk

**Confirm Email** marcincin@szm.sk

**Security Image**



Enter the numbers from the above image:  
15024

**Subscribe to**

- DynDNS.com newsletter (1 or 2 per month)
- Dyn Inc. press releases

I agree with the [acceptable use policy \(AUP\)](#) and [privacy policy](#).

Create Account


Already Registered?

**Username**

**Password**

Log in

[Forgot your password?](#)



Internet 100%

start 172.16.5.63 ... Create DynD... DynDNS\_04 - ... Gmail - aaa - ... EN 0:36

#### 4 Confirmation account.

One more step to go... - Windows Internet Explorer

https://www.dyndns.com/account/entrance/welcome.html?username=remote-control

DynDNS.com  
by Dynamic Network Services Inc.

What are you looking for? Search

Why DynDNS.com? Services & Pricing Support Have an account? Join NOW Sign In

One more step to go...

We've sent an email to **marcincin@szm.sk**, to verify your account. Please check your inbox and click on the confirmation link.

If you do not receive the email in the next few minutes you can try [resending it](#).

Thanks for choosing DynDNS.com!

Done Internet 100%

start 172.16.5.63 ... One more ste... DynDNS\_04 - ... Gmail - aaa - ... EN 0:37

## 5 Confirmation password.

DynDNS.com - User Info Confirmation - Maxthon 2.5.16

Súbor Úpravy Zobrazit' Oblúbené Skupiny Nástroje Pomoc

https://www.dyndns.com/confirm/create/-qNM5cOWBYzF6twqRrVG3w

Neznáma SSL

SZM.sk - naj... DynDNS.co...

DNS & Domains Email Services Performance & Security

**DynDNS.com**  
by Dynamic Network Services Inc.

What are you looking for? Search

Why DynDNS.com? Services & Pricing Support

### Please Confirm Your Password

Please log in to finalize account activation.

**Username** remote-control

**Password**

Confirm Account

[Forgot your password?](#)

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TRUSTe  
CERTIFIED PRIVACY

You could try Magic Fill function. Press Alt+1 to use it.

1392M

start One more step to go... DynDNS\_05 - Paint DynDNS.com - User I... EN 0:47

## 6 Congratulations – press button My Account – [ new window is open ]

The screenshot shows a web browser window with the URL <https://www.dyndns.com/confirm/create/-qNM5cOWBYzF6twqRrVG3w>. The page features the DynDNS.com logo and navigation links: "Why DynDNS.com?", "Services & Pricing", "Support", "Hi remote-control (FREE)", "My Account", "My Cart", and "Log Out". A search bar is present with the text "What are you looking for?".

The main content area displays a congratulatory message: "Congratulations! Your Account Is Now Active!". Below this, a message states: "Account **remote-control** has been confirmed and activated. Please explore following options to get started."

Three service options are presented in a grid:

DynDNS Free	DynDNS Pro	DynDNS Custom
FREE	Most Popular \$15/yr	\$29 <sup>.95</sup> /yr
Get a free domain name	Up to 30 Pro domain names	DNS hosting for yourdomain.com
Update monthly to avoid expiration	Never expires, just works	Branded URL-shortening with WebHop
Use with Windows, OSX, routers & more	250+ domain names to choose from	...also works with Apple AirPort & Bonjour
Free email and community support	Access to phone technical support	Access to phone technical support
<a href="#">Add Hostname</a>	<a href="#">Add Pro Hostname</a>	<a href="#">Add Custom DNS</a>

A tooltip is visible over the "Add Custom DNS" button, containing the text: "Ľavý klik: Otvoriť menu Lovca reklám Právý klik: Povolit'/zakázat' všetky filtre".

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 0:47 and language set to EN.

## 7 Select My Accounts – press butoon My Services – [ new window is open ]

DynDNS.com - My Account - Windows Internet Explorer

https://www.dyndns.com/account/

DynDNS.com by Dynamic Network Services Inc.

What are you looking for? Search

Why DynDNS.com? Services & Pricing Support Hi remote-control (FREE) My Services My Cart Log Out

**My Account**

- My Services
- Account Settings
- Billing
- My Cart 0 items

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**My Services**  
View, modify, purchase, and delete your services.

- [My Zones/Domains](#)
- [Add Zone/Domain Services](#)
- [My Hosts](#)
- [Add Host Services](#)
- [Dynamic DNS Pro](#)
- [Dynect SMB](#)
- [Internet Guide](#)
- [SendLabs SMTP](#)
- [SSL Certificates](#)
- [Support](#)
- [Premier Support](#)
- [Contact Support](#)
- [DNS Service Level Agreement](#)

**Billing**  
Update your billing information, complete a purchase, and view invoices.

- [View Shopping Cart](#)
- [Active Services](#)
- [Order History](#)
- [Billing Profile and Vouchers](#)
- [Renew Services](#)
- [Auto Renew Settings](#)
- [Sync Expirations](#)

**Account Settings**  
Update your email address, set preferences, and delete your account.

- [Change Email Address](#)
- [Change Password](#)
- [Change Username](#)
- [Contact Manager](#)
- [Mailing Lists](#)
- [Move Services](#)
- [Preferences](#)
- [Close Account](#)

start | DynDNS.com - My Ac... | DynDNS\_07 - Paint | SZM.sk - najväčší zoz... | EN | 0:57

## 8 Select My Services – press : Add Hostname – [ new window is open ]

The screenshot shows the 'My Services' page for a DynDNS.com account. The browser window title is 'My DynDNS.com Account: My Services - Windows Internet Explorer'. The address bar shows 'https://www.dyndns.com/account/services/'. The page has a yellow navigation bar with links for 'Why DynDNS.com?', 'Services & Pricing', and 'Support'. On the right of the navigation bar, it says 'Hi remote-control (FREE)' and has buttons for 'My Account', 'My Cart', and 'Log Out'. A left sidebar contains 'My Account' and 'My Services' sections. The main content area is titled 'Account Level Services' and contains a table of services. Below this is a 'Zone Level Services' section with a message 'You do not currently have any zone services.' and a 'Host Services' section with an 'Add Hostname' button. The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time '1:00'.

Why DynDNS.com? Services & Pricing Support Hi remote-control (FREE) My Account My Cart Log Out


### My Account

#### My Services

- Dynamic DNS Pro
- Internet Guide
- SLA
- Premier Support
- Domain names, DNS hosting, Sendlabs e-mail services
- Dynamic DNS Hosts
- Dynect SMB
- SendLabs SMTP
- SSL Certificates
- Renew Services
- Auto Renew Settings
- Sync Expirations

#### Account Settings

#### Billing

 **My Cart**  
[0 items](#)

### Account Level Services

<b>Paid Account (?)</b>	No	<a href="#">Technical Support</a>
<b>Dynamic DNS Pro Upgrades (?)</b>	No	<a href="#">View - Add</a>
<b>DNS Service Level Agreement (?)</b>	None	<a href="#">Add DNS Service Level Agreement</a>
<b>Premier Support Option (?)</b>	None Available	<a href="#">Add Premier Support Cases</a>
<b>Internet Guide - Recursive DNS (?)</b>	Available	<a href="#">Get Started</a>
<b>Dynect SMB (?)</b>	Available	<a href="#">Get Started</a>

### Zone Level Services

[Details](#) - [Add Zone Service](#) - [Host Update Logs](#)

You do not currently have any zone services.

### Host Services

[Add Hostname](#) - [Host Update Logs](#)

**WE'RE HIRING**

https://www.dyndns.com/account/services/hosts/add.html Internet 100%

start My DynDNS.com Acc... DynDNS\_08 - Paint SZM.sk - najväčší zoz... EN 1:00

## 9 Hostname – choose Hostname and enter your IP address

**Why DynDNS.com?** **Services & Pricing** **Support** Hi **remote-control (FREE)** **My Account** **My Cart** **Log Out**

### My Account

#### My Services

- Dynamic DNS Pro
- Internet Guide
- SLA
- Premier Support
- Domain names, DNS hosting, Sendlabs e-mail services
- Dynamic DNS Hosts
- Dynect SMB
- SendLabs SMTP
- SSL Certificates
- Renew Services
- Auto Renew Settings
- Sync Expirations

#### Account Settings

#### Billing

**My Cart**  
0 items

### Add New Hostname

[↑ Host Services](#)

You don't currently have a [Dynamic DNS Pro service](#) in your account.

To get the full benefits of Dynamic DNS, including premium subscriber domains and other features, [add Dynamic DNS Pro to your shopping cart](#) (or try it with \$1.99 [monthly subscription](#)).

**Hostname:** remote-control . **dyndns-remote.com**

**Wildcard:**  create "\*" .host.dyndns.com (for example to use www.host.dyndns.com)

**Service Type:**  Host with IP address  WebHop Redirect  Offline Hostname

**IP Address:**   
[Your current location's IP address](#)  
TTL value is 60 seconds

**Mail Routing:**  I have mail server with another name and would like to add MX hostname...

**WE'RE HIRING**

Done Internet 100%

start DynDNS.com - My Ac... DynDNS\_09 - Paint SZM.sk - najväčší zoz... EN 1:02

## 10 IP address – insert your actual IP address

**DynDNS.com - My Account -- Host Services -- Settings - Windows Internet Explorer**

https://www.dyndns.com/account/services/hosts/add.html

Why DynDNS.com? Services & Pricing Support Hi **remote-control (FREE)** My Account My Cart Log Out

### My Account

**My Services**

- Dynamic DNS Pro
- Internet Guide
- SLA
- Premier Support
- Domain names, DNS hosting, Sendlabs e-mail services
- Dynamic DNS Hosts
- Dynect SMB
- SendLabs SMTP
- SSL Certificates
- Renew Services
- Auto Renew Settings
- Sync Expirations

**Account Settings**

**Billing**

**My Cart**  
0 items

**WE'RE HIRING**

## Add New Hostname [↑ Host Services](#)

You don't currently have a [Dynamic DNS Pro service](#) in your account.

To get the full benefits of Dynamic DNS, including premium subscriber domains and other features, [add Dynamic DNS Pro to your shopping cart](#) (or try it with \$1.99 [monthly subscription](#)).

**Hostname:** remote-control . dyndns-remote.com

**Wildcard:**  create "\*" .host.dyndns-yourdomain.com" alias (for example to use same settings for www.host.dyndns-yourdomain.com)

**Service Type:**

- Host with IP address
- WebHop Redirect (URL forwarding service)
- Offline Hostname

**IP Address:** 188.167.69.247  
[Your current location's IP address is 188.167.69.247](#)  
TTL value is 60 seconds. [Edit TTL...](#)

**Mail Routing:**  I have mail server with another name and would like to add MX hostname...

https://www.dyndns.com/account/services/hosts/add.html#

Internet 100%

start DynDNS.com - My Ac... DynDNS\_09 - Paint SZM.sk - najväčší zoz... EN 1:02

## 11 press butoon 'Proceed to checkout'

The screenshot shows the DynDNS.com shopping cart page. The browser title is "DynDNS.com: My Shopping Cart - Windows Internet Explorer". The address bar shows "https://www.dyndns.com/account/cart/". The page header includes the DynDNS.com logo and navigation links: "DNS & Domains", "Email Services", and "Performance & Security". A search bar is present with the text "What are you looking for?". The main navigation bar includes "Why DynDNS.com?", "Services & Pricing", "Support", and user information: "Hi remote-control (FREE)", "My Account", and "Log Out".

The main content area is titled "Shopping Cart". A message states: "Host remote-control.dyndns-free.com added to cart. Finish FREE checkout to activate." Below this is a "Proceed to checkout" button. An "Upgrade Options" section explains that free accounts allow only two Dynamic DNS hosts and offers options to purchase Dynamic DNS Pro or use Custom DNS. A table lists the items in the cart:

Dynamic DNS Hosts			
remote-control.dyndns-free.com	-	remove	\$0.00
<b>Order Total:</b>			<b>\$0.00</b>

Below the table is another "Proceed to checkout" button. The sidebar on the left contains "My Account" and "My Services" sections, with links for "Account Settings", "Billing", "Active Services", "Auto Renew Settings", "Order History", and "Billing Profile". A "WE'RE HIRING" banner and "Powered by Dyn" logo are also visible.

## 12 Services Checkout

**DynDNS.com**  
by Dynamic Network Services Inc.

What are you looking for?

Why DynDNS.com? Services & Pricing Support Hi **remote-control (FREE)**

### Free Services Checkout

Once you have confirmed the contents of your cart your services will be instantly activated.

Service	Period	Price
<b>Dynamic DNS Hosts</b>		
<a href="https://remote-control.dyndns-free.com">remote-control.dyndns-free.com</a>	-	\$0.00
<b>Sub-Total:</b>		<b>\$0.00</b>

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Done Internet 100%

start DynDNS.com Checko... DynDNS\_12 - Paint SZM.sk - najväčší zoz... EN 1:06

### 13 Service successfully activated.

The screenshot shows the DynDNS.com website interface. At the top, the browser title is "DynDNS.com - My Account -- Host Services - Windows Internet Explorer". The address bar shows the URL "https://www.dyndns.com/account/services/hosts/?activated=1". The page header includes navigation tabs for "DNS & Domains", "Email Services", and "Performance & Security". The DynDNS.com logo is prominently displayed on the left. A search bar is located on the right. Below the header, there is a navigation menu with links for "Why DynDNS.com?", "Services & Pricing", "Support", and user options: "Hi remote-control (FREE)", "My Account", "My Cart", and "Log Out". A tweet is featured in a light blue box, mentioning the user's recent domain activation. The main content area is titled "Host Services" and displays a green notification: "remote-control.dyndns-free.com successfully activated." Below this, a table lists the active host service.

Hostname	Service	Details	Last Updated
<a href="https://remote-control.dyndns-free.com">remote-control.dyndns-free.com</a>	Host	188.167.69.247	Mar. 04, 2011 7:06 PM

Additional elements on the page include a "My Account" sidebar with various service options, a "Host Update Logs" link, an "Add New Host" button, and a community link at the bottom.

## 14 Service overview.

The screenshot shows a web browser window titled "My DynDNS.com Account: My Services - Windows Internet Explorer". The address bar shows the URL "https://www.dyndns.com/account/services/". The page content is organized into several sections:

- My Account** (left sidebar):
  - My Services
    - Dynamic DNS Pro
    - Internet Guide
    - SLA
    - Premier Support
    - Domain names, DNS hosting, Sendlabs e-mail services
    - Dynamic DNS Hosts
    - Dynect SMB
    - SendLabs SMTP
    - SSL Certificates
    - Renew Services
    - Auto Renew Settings
    - Sync Expirations
  - Account Settings
  - Billing
  - My Cart (0 items)
  - WE'RE HIRING
  - Powered by Dvn
- Account Level Services** (main content area):

Service	Status	Action
<b>Paid Account (?)</b>	No	<a href="#">Technical Support</a>
<b>Dynamic DNS Pro Upgrades (?)</b>	No	<a href="#">View - Add</a>
<b>DNS Service Level Agreement (?)</b>	None	<a href="#">Add DNS Service Level Agreement</a>
<b>Premier Support Option (?)</b>	None Available	<a href="#">Add Premier Support Cases</a>
<b>Internet Guide - Recursive DNS (?)</b>	Available	<a href="#">Get Started</a>
<b>Dynect SMB (?)</b>	Available	<a href="#">Get Started</a>
- Zone Level Services**:

You do not currently have any zone services.

[Details](#) - [Add Zone Service](#) - [Host Update Logs](#)
- Host Services**:

[Details](#) - [Add Hostname](#) - [Host Update Logs](#)

Hostname	Service	Info
<a href="#">remote-control.dyndns-free.com</a>	Host	188.167.69.247

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 1:11.

15 Start the TCP/IP Voltmeter and open page 'Dynamic DNS'. Enter name , password and host and push button 'Set DDNS Configuration'.

The screenshot shows a web browser window titled "Microchip TCP/IP Stack Demo App - Windows Internet Explorer". The address bar shows "http://voltmeter/dyndns". The page features the Microchip logo and a navigation menu with "Home", "Relay", and "Dynamic DNS" (the active page). A red banner at the top right reads "TCP/IP Voltmeter & Thermometer".

The main heading is "Dynamic DNS". Below it, a pink error box states: "The current configuration is not valid." The text explains: "The Dynamic DNS module allows the stack to update the board's global IP address to various Dynamic DNS services. This feature, along with proper port forwarding in place at the router, can enable global access to a device behind a NAT router or firewall." It then instructs: "Enter the settings in the fields below:"

The configuration form includes the following fields:

- DDNS Service:** A dropdown menu set to "DynDNS (www.dyndns.com)".
- User Name:** A text input field containing "remote-control".
- Password:** A text input field containing seven dots.
- Host:** A text input field containing "remote-control.dyndns-free.com".

A "Set DDNS Configuration" button is located below the form fields. At the bottom of the page, the copyright notice reads: "Copyright © 2009 Microchip Technology, Inc." The browser's status bar at the bottom shows "Internet" and a zoom level of "100%".

16 New messages appears : 'Your settings have been saved' and 'The Dynamic.....update'.

The screenshot shows a Windows Internet Explorer browser window displaying the Microchip TCP/IP Stack Demo App. The address bar shows the URL `http://voltmeter/dyndns`. The page content includes the Microchip logo and a navigation menu with 'Home', 'Relay', and 'Dynamic DNS' options. The main heading is 'Dynamic DNS'. Two status messages are displayed: a green box stating 'Your settings have been saved.' and a yellow box stating 'The Dynamic DNS client is pending an update.'. Below these messages, a paragraph explains the Dynamic DNS module's function. A form for configuring DDNS settings is provided, with the following fields and values:

DDNS Service:	DynDNS (www.dyndns.com)
User Name:	remote-control
Password:	••••••
Host:	remote-control.dyndns-free.com

A 'Set DDNS Configuration' button is located below the form fields.

17 You now have access to the TCP/IP voltmeter via internet.

The screenshot shows two overlapping Internet Explorer windows. The top window displays the URL `http://voltmeter/dyndns`. The bottom window displays the URL `http://remote-control.dyndns-free.com/` and shows the Microchip website content.

**MICROCHIP**

TCP/IP Voltmeter & Thermometer

Home  
Relay  
Dynamic DNS

**Measured values :**

Channel 1 :	0.0	Volt
Channel 2 :	0.1	Volt
Temperature :	24.5	°C

Voltmeter range : 0 V to 50.0 Volt  
Temperature range : -25 to + 125 Celsius

Temperature measurement is every 5 seconds.

**Stack Version:** v5.20  
**Build Date:** Jan 11 2011 10:43:24

Copyright © 2009 Microchip Technology, Inc.

18 After connection to the TCP/IP Voltmeter, the DNS client is updated.

Microchip TCP/IP Stack Demo App - Windows Internet Explorer

http://remote-control.dyndns-free.com/dyndns

**MICROCHIP**

TCP/IP Voltmeter & Thermometer

Home  
Relay  
Dynamic DNS

## Dynamic DNS

The Dynamic DNS client is pending an update.

The Dynamic DNS module allows the stack to update the board's global IP address to various Dynamic DNS services. This feature, along with proper port forwarding in place at the router, can enable global access to a device behind a NAT router or firewall.

Enter the settings in the fields below:

DDNS Service: DynDNS (www.dyndns.com) ▼  
User Name: remote-control  
Password: ●●●●●●  
Host: remote-control.dyndns-free.com

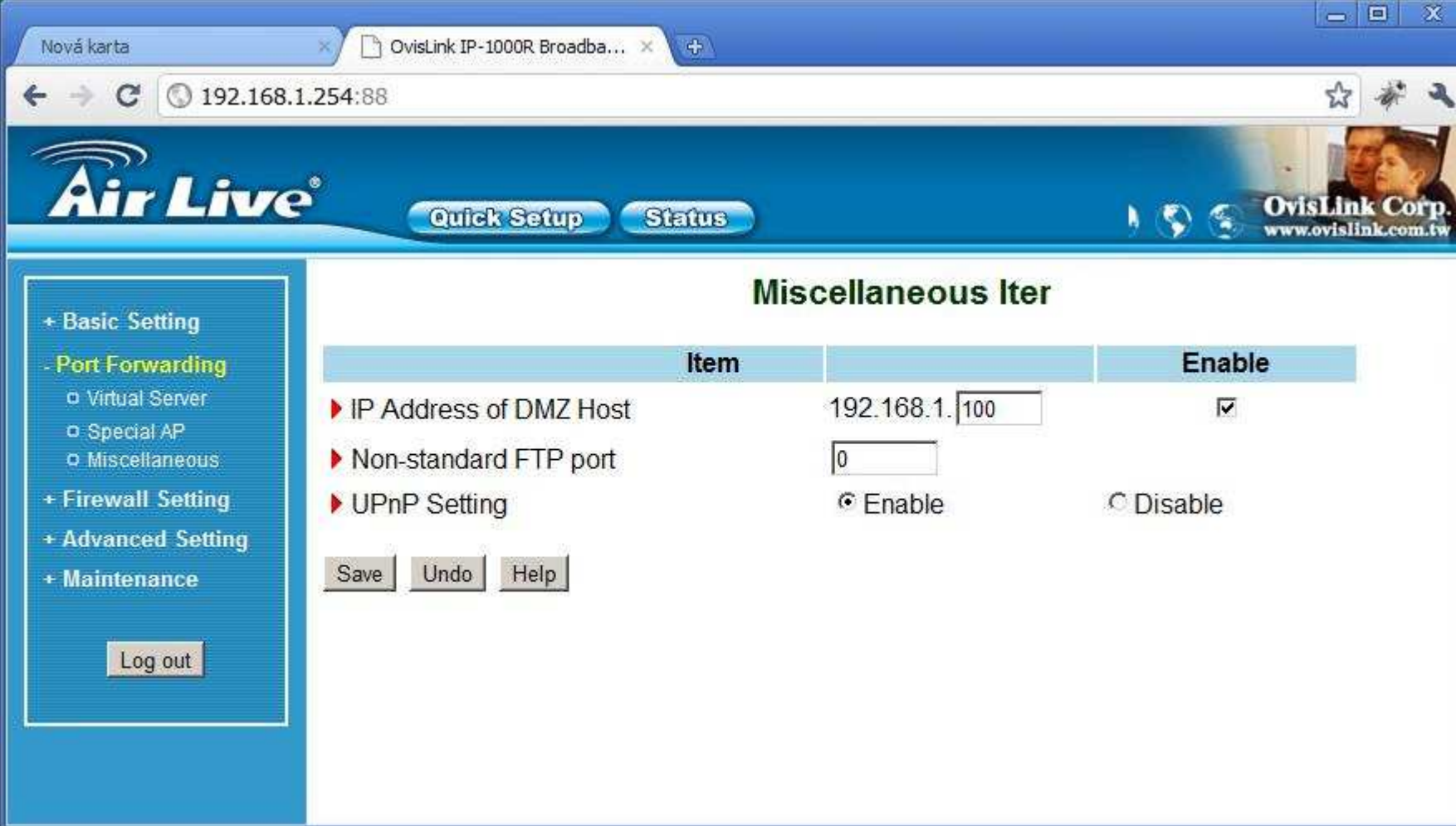
Set DDNS Configuration

Copyright © 2009 Microchip Technology, Inc.

Done Internet 100%

## Setting router :

If your TCP/IP voltmeter is located behind routers, you need to set 'port forwarding' for TCP/IP voltmeter. Each router has its own GUI for setup. It may look like this or similar.



The screenshot shows a web browser window with the URL 192.168.1.254:88. The page is titled "Air Live" and features a navigation menu on the left with options: Basic Setting, Port Forwarding (selected), Firewall Setting, Advanced Setting, and Maintenance. A "Log out" button is also present. The main content area is titled "Miscellaneous Iter" and contains a table with the following data:

Item		Enable
▶ IP Address of DMZ Host	192.168.1.100	<input checked="" type="checkbox"/>
▶ Non-standard FTP port	0	
▶ UPnP Setting	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	

Below the table are three buttons: Save, Undo, and Help.

Connects to the router and enter the IP address of TCP/IP voltmeter. Save settings. Then you can connect to TCP/IP voltmeter over internet .