

AUTOMONITOR JUMP

Manual and Quick Start Guide



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TECHNICAL DETAILS

Physical size	69mm x 32mm x 24mm
Weight	50 grams
Power consumption	Less than 1 watt (without USB modem)
Operating modes	NAT router, Simple 3G router (IP pass-through) or Virtual Cable (transparent connection, peer to peer)
Encryption algorithm	Twofish, 128 bit keys
Authentication	Shared password
NAT traversal and connections behind firewalls	Yes
Satellite connectivity	Yes (Thuraya SO-2510 phone or Thuraya SM-2500 module)
Interfaces	USB (for high speed 3G modem or satellite), Ethernet (connection to devices or computers)
Computers behind router	1 (in IP pass-through mode), 250 (in NAT router mode), unlimited (in virtual cable mode)

Congratulations on your purchase of the world's smallest 3G router with peer to peer VPN capabilities! AutoMonitor Jump allows Ethernet-based equipment to connect and exchange information over wireless 3G networks. It contains a VPN controller that is capable of establishing transparent peer-to-peer connections from behind firewalls. AutoMonitor Jump is simple, smart, secure and very very small.

AutoMonitor Jump can operate in one of three modes: NAT router, IP pass-through or virtual-cable.

"NAT router" mode allows multiple computers to access the Internet through the 3G modem by using Network Address Translation (NAT). This is the simplest mode and is used in the vast majority of the 3G routers on the market today.

"IP Pass through" mode transparently connects the Ethernet network to the 3G wireless network. In this mode, the equipment behind the router is directly connected to the 3G network, making AutoMonitor Jump a "3G modem with an Ethernet port" rather than a classical 3G router.

AutoMonitor Jump is compatible with virtually any GSM, 3G or HSDPA/HSUPA USB modem and, for really remote locations, it even works via satellite, using the Thuraya satellite network.



AutoMonitor Jump connected to the world's smallest satellite phone - Thuraya SO-2510

A unique feature of the AutoMonitor Jump is the “virtual cable” mode. In this mode, two or more AutoMonitor Jump routers act as a virtual very long Ethernet cable. The 3G network is completely transparent to the user; the ends appear to be directly connected via cable. You can configure and view video from IP cameras located miles away, access office printers and file servers from anywhere in the world or play LAN games with your friends from another continent. **Any application that works over a direct Ethernet cable also works over the AutoMonitor Jump Virtual Cable system.**

At 50 grams, 69 mm x 32 mm x 24 mm and a power consumption of less than 1 watt, AutoMonitor Jump is the world’s smallest 3G router. It’s actually smaller than most of the 3G modems it connects to.



AutoMonitor Jump connected to Huawei E220 3G modem.

For CCTV use, it is small enough to fit into most outdoor camera enclosures or hide behind a regular indoor IP camera.

The router can be powered from a regular power outlet, from a computer USB port or even from a single AA battery.

AutoMonitor Jump uses end-to-end encryption on all “virtual cable” connections. Networks are protected by a shared password, known only to the participating nodes. No software needs to be installed on any computer, so users can comply with office security policies regarding third-party software installations – AutoMonitor Jump is completely self-contained and autonomous.

Whenever possible, traffic is routed directly between nodes. If this is not possible, traffic is relayed through an external server, so you are **always** able to connect.

Thank you again for purchasing an AutoMonitor Jump 3G router. Please follow these easy steps to get started with your AutoMonitor Jump.

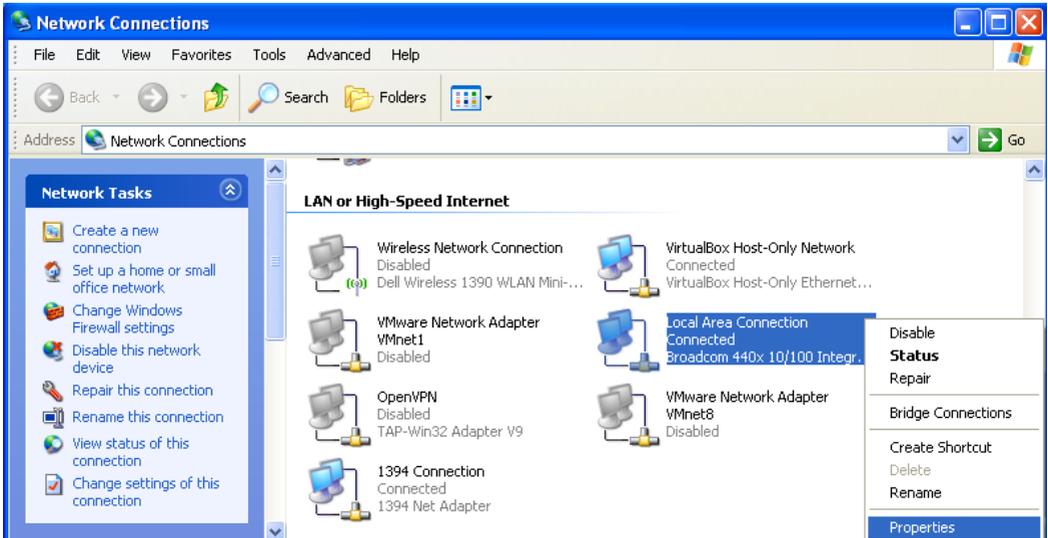
Step 1: Pre-requisites

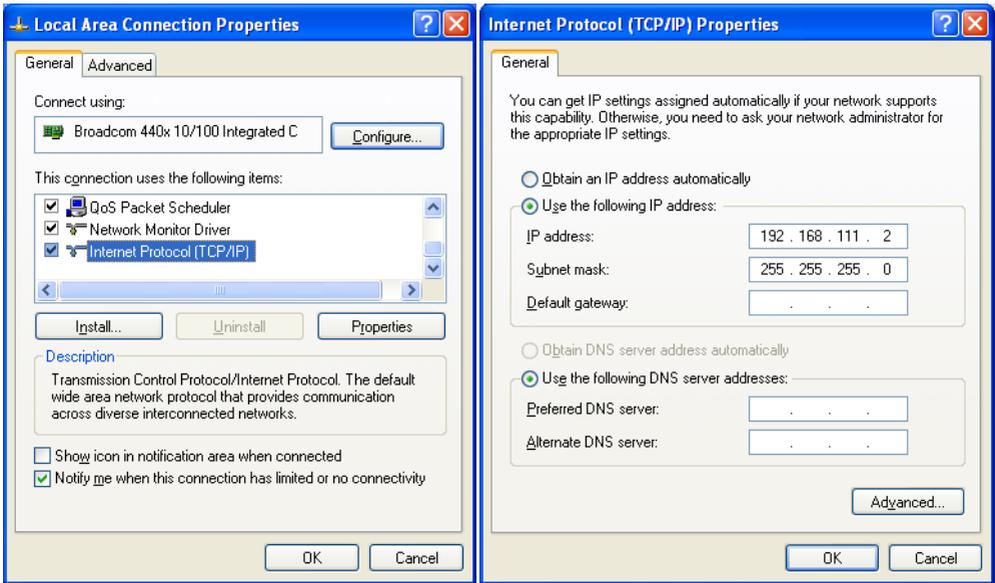
If you wish to use AutoMonitor Jump with your current Internet connection (without a 3G modem) you will simply need the router, its power adapter and an Ethernet cable. Make sure that your existing router can give out IP addresses over DHCP so that the AutoMonitor Jump can obtain its address.

If you want to use a 3G network, please have the modem handy as well as the GPRS or 3G settings (APN, username and password) obtained from your GSM network operator.

Step 2: Configure your computer

For the initial configuration, set your computer to use an IP address of **192.168.111.2** netmask **255.255.255.0** on the Local Area Connection. The AutoMonitor Jump assumes an IP address of **192.168.111.1** when in configuration or debug mode.





Step 3: Power on the router in debug mode

Connect the Ethernet cable to the back of the router and make sure the other end is inserted either directly into your computer or into your main hub or switch. Do **NOT** plug the 3G modem in yet.

With a paper clip or any other pointed object, press the RESET button located on the side of the router. The hole is clearly labeled as "Reset". Press and hold the button while powering on the AutoMonitor Jump. Release the button after approximately 15 seconds.



Step 4: Configure the router using the web interface

Start your favorite web browser and go to <http://192.168.1.1/> . You should see a web interface similar to the one below:

AutoMonitor Jump config page - Windows Internet Explorer

File Edit View Favorites Tools Help

http://192.168.111.1/cgi-bin/index.cgi

AutoMonitor Jump config page

General settings / 6AB3F6001CFB → MAC Address

Connection mode	Virtual cable mode	Select a connection mode
Reboot on disconnect	Yes	Reboot if the 3G network fails - set this to yes for increased reliability

GPRS/3G settings → Obtain from GSM/3G operator

APN	internet	Enter your GPRS APN here
GPRS Username	internet	Enter your GPRS username here
GPRS Password	password	Enter your GPRS password here

DynDns Settings

Hostname	automonitor-test	Enter your DynDns.org hostname, e.g. myhost.dyndns.org
Username	automon	Enter your DynDns.org username here
Password	testpass	Enter your DynDns.org password here

Virtual Cable Settings (only for Virtual Cable mode)

Server address	s.automonitor.ro:9999	set to s.automonitor.ro:9999 for demo server
Account name	your_email@yahoo.com	Please use your email address or another globally unique identifier
Network name	test	Unique network name
Network password	test	Secures your network

Use your email address! → **Generate configuration** → Press to generate configuration file

Generated settings - edit or add parameters below if needed

Write configuration to persistent memory

Make a note of the unique device ID (MAC address) of your AutoMonitor Jump router, as indicated in the previous image. You will need it if you wish to contact Cayenne Graphics for technical support.

If you want to use the router as a classical 3G router, choose *NAT router* from the *Connection Mode* dropdown. To enable the “IP Pass-through” mode (direct connection from Ethernet to 3G) choose *Simple 3G router*. To use it as a virtual Ethernet cable, choose “Virtual cable mode”.

In the *GPRS/3G Settings* section, enter the information for your 3G modem, as given to you by your GSM network operator. If you are not using a 3G modem you can leave these fields blank.

The *DynDns Settings* section allows you to configure a dynamic hostname for your router using the www.dyndns.org service. Please note that this address will not be actually assigned to the router, it will be given out to your computer in Simple 3G” mode. You can use this address to access your computer from the Internet when connected through a 3G modem.

In *Virtual Cable Settings*, it is important that you use your email address as the *Account name*. If you have more than one AutoMonitor Jump router, this ensures that your routers will be placed on the same virtual network and will be able to see each other. This also prevents network name collisions with networks defined by other users.

You can use *s.automonitor.ro:9999* as the server address if you want to connect to our demo server. ***We strongly advise you to install your own server if you expect large amounts of traffic or if you experience low data rates. Our demo server is shared by all our clients and has limited Internet bandwidth.***

The server is only used to help the ends of a virtual cable reach each other. Traffic is routed directly between endpoints whenever possible.

Set a name and a password for your virtual cable network. Two AutoMonitor Jump routers will be able to reach each other only if the *Account Name*, *Network Name* and *Network Password* are the same. Use different network names to set up different virtual networks under your account. Computers on different networks will not be visible to each other!

Step 5: Generate configuration

When you have completed the configuration, press the *Generate configuration* button. This will create a configuration file and display it in the text area below. You can manually edit the configuration file and change or add parameters before saving. *Cayenne Graphics support engineers may instruct you to add specific configuration directives manually to this area before saving it if you experience problems with certain 3G modems or network configurations. You normally do not need to change anything manually.*

AutoMonitor Jump config page - Windows Internet Explorer

File Edit View Favorites Tools Help

http://192.168.111.1/cgi-bin/index.cgi

AutoMonitor Jump config page

Hostname	<input type="text" value="automonitor-test"/>	Enter your DynDns.org hostname, e.g. myhost.dyndns.org
Username	<input type="text" value="automon"/>	Enter your DynDns.org username here
Password	<input type="text" value="testpass"/>	Enter your DynDns.org password here
Virtual Cable Settings (only for Virtual Cable mode)		
Server address	<input type="text" value="s.automonitor.ro:9999"/>	set to s.automonitor.ro:9999 for demo server
Account name	<input type="text" value="your_email@yahoo.com"/>	Please use your email address or another globally unique identifier
Network name	<input type="text" value="test"/>	Unique network name
Network password	<input type="text" value="test"/>	Secures your network

Generated settings - edit or add parameters below if needed

```
PM=vpn ROD=1 APN=internet U=internet P=password DH=automonitor-test DU=automon DP=testpass
VA=your_email@yahoo.com VS=s.automonitor.ro:9999 VC=test VP=test
```

↓

Configuration file generated from the settings above.
Can be edited manually before writing to persistent memory.

→ Save configuration and reboot

[Debug Modem Debug](#) → Debug links. Use only when instructed to do so by Cayenne Graphics engineers.

The *Debug* and *Modem Debug* links at the bottom of the page should only be used when asked to by Cayenne Graphics support engineers. They are used to identify specific problems with your configuration or your 3G modem.

Step 6: Save configuration and reboot

After generating the configuration file, press the *Write configuration to persistent memory* button. This will apply all your configuration changes and reboot the router.

You can now switch your computer back to its original network configuration.

If you ever need to reconfigure the router, simply follow the same procedure. Your previous settings will show in the form and you will be able to edit them and generate a new configuration file, then save it and reboot.

Step 7: Enjoy!

When the router is rebooted, it will look for a 3G modem attached to its USB port. If there is not modem attached, it will fall back to an Ethernet-only mode and attempt to establish a virtual cable link through your existing Internet connection.

If you have a remote IP camera you can use the virtual cable mode with a 3G modem at the camera location and an AutoMonitor Jump without a 3G modem on your network. They will establish the secure virtual cable between the two locations and allow the IP camera to behave as if connected to your network directly.

Please visit our website at <http://www.automonitor.net/jump/> for additional details and use cases.

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