

AutoMonitor Jump

World's smallest 3G router and peer to peer VPN controller



AutoMonitor Jump is a miniature 3G/HSPA router that 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.



SMALL

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.

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

SMART

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.

In **IP pass-through** mode, AutoMonitor Jump establishes a direct connection between the Ethernet equipment and 3G network. It acts as a 3G modem with an Ethernet port.

The **unique virtual-cable mode** creates a transparent connection between two Ethernet networks over 3G or GSM. The wireless network is completely transparent to the application. No reconfiguration of equipment is needed, two or more routers acts a virtual very long Ethernet cable.

AutoMonitor Jump is compatible with **any 3G USB modem and the Thuraya satellite network** for access in remote isolated areas. It supports high speed HSUPA/HSDPA modems for speeds of up to 5.7Mbps.



World's smallest 3G router connected to the world's smallest satellite handset - Thuraya SO-2510

It can also operate without a 3G or satellite modem by reusing the existing Internet connection to establish a transparent tunnel and connect two or more networks into a virtual Ethernet network.

AutoMonitor Jump can establish *connections from behind firewalls*.

SIMPLE

AutoMonitor Jump is a completely self contained hardware solution. *No software installation is needed!*

It works with *any equipment, any operating system and virtually any 3G modem*. Endpoints do not need to run TCP/IP, any other Ethernet-based protocol can be used.

It *does not require a routable or a static IP address* on the 3G network.

SECURE

All virtual cable connections are encrypted end-to-end with *128-bit keys*.

The networks are protected with a shared password, known only to the participating nodes.

Traffic is sent directly between endpoints whenever possible; otherwise it is relayed through a server.

USE CASES

Initially designed for the IP CCTV market, AutoMonitor Jump allows IP surveillance cameras to work from anywhere in the world, even mounted in moving vehicles or isolated locations. Cameras act as if they are present on the local network, no configuration is necessary. They can even obtain IP addresses via DHCP from the local server while in motion or from hundreds of miles away. ***AutoMonitor Jump transforms any IP camera into a wireless mobile 3G camera!***



AutoMonitor Jump connected to Huawei E220 3G modem and IP camera

It can ***establish a secure VPN between endpoints anywhere in the world within minutes***. Endpoints can be mobile or behind firewalls. AutoMonitor Jump brings them together under a single virtual network, allowing sharing of printers, file servers and any other office equipment without any changes in configuration

The 3G router is also ideal for ***remote assistance and network administration***. It allows system administrators to manage their networks as if they were locally present, even when the main Internet connection at that location is down.

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 (Network Address Translation), 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)
Wireless networks supported	GSM, GPRS, EDGE, 3G, HSDPA, HSUPA, GmPRS (Thuraya satellite packet data)

For more information, visit <http://www.automonitor.net/jump/> or send us an email at contact@automonitor.net.

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