

LAN Type | 10/100 Ethernet | 10/100/1000 Ethernet | MoCA | HPNA

Broadband Wireless Router

Actiontec releases another technological juggernaut with its latest offering, the MI424WRN Broadband Wireless Router. This Fiber Router offers the kind of superior performance high-end customers crave, and is perfect for fiber deployment, either in single households that access many high-bandwidth applications (such as multiple high-definition video streams), or as a fixed wireless hub for apartment buildings or offices.

Faster and More Powerful

The Broadband Wireless Router is designed from the ground up to take advantage of fiber optic connections, particularly PON (passive optical networking) connections, which allow a single optical fiber connection to serve multiple locations. This makes the Fiber Router perfect for residential PON customers who utilize IPTV (Internet protocol television), business or multi-residence users. This Fiber Router also features a cutting-edge CPU (capable of processing as much as 80 times the throughput of earlier-generation broadband routers), which makes it possible to handle multiple, high-throughput media streams simultaneously, including standard and HDTV-based video programming. It also allows telcos to assign bandwidth priorities for data, video-on-demand, and voice-over-IP traffic to ensure quality of service in multiple network environments.

Simple, Effective GUI

Actiontec spared no expense or effort to make this Fiber Router as uncomplicated as possible to install and operate. The graphical user interface was redesigned for clarity, highlighting the most commonly used options, such as checking the status of the network or the broadband connection's IP address, while nearly all of the other options are at most two clicks away. Additionally, the GUI's home page is customizable, allowing the user to insert specific Internet links or other online services.



Model# MI424WRN

Nothing if Not Secure

With all of your data coming in and going out, the Broadband Wireless Router also shines in another important category: security. It ships with wireless encryption using WPA-PSK activated by default, while offering an array of additional, enterprise-level security options, including an ultra-configurable firewall with Stateful Packet Inspection, denial-of-service protection, content filtering, and intrusion detection to inform you of undesirable visitors trying to access your network. Also featured are parental control capabilities (with user-defined website blocking by URL), customizable filtering policies for each networked computer, and user notification of attempted access to restricted websites.

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Features

- Integrated Wired Networking with 4 Port 10/100 Mbps Ethernet Switch
- Integrated Wireless Networking with 802.11g Access Point.
 - 802.11g enabled to support speeds up to 54 Mbps wirelessly
 - 802.11b backward compatible, communicating with 802.11b wireless products at speeds up to 11 Mbps.
- Enterprise Level Security
 - Fully customizable firewall with Stateful Packet Inspection.
 - Content filtering including URL Keyword-Based Filtering, Parental Control, Customizable Filtering Policies per Computer and Email Notification
 - Denial of Service Protection including IP Spoofing Attacks, Intrusion and Scanning Attacks, IP Fragment Overlap, Ping of Death, Fragmentation Attacks
 - Event Logging
 - Intrusion Detection
 - MAC Address Filtering
 - NAT
 - DMZ Hosting
 - Access Control
 - Advanced Wireless Protection: WPA, WEP 64/128 bit Encryption, 802.1x authentication, MAC Address Filtering
- Other Features
 - DHCP Server Option
 - DHCP Server/PPPoE Server Auto Detection
 - DNS Server
 - IGMP
 - LAN IP & WAN IP Address Selection
 - MAC Address Cloning
 - Port Forwarding
 - PPPoE Support
 - QoS Support (End to end Layer 2/3)
 - Diffserv
 - 802.1p/q Prioritization
 - Configurable Upstream/Downstream Traffic Shaping
 - Random Early Detection
 - Pass-through of WAN-side DSCPs, PHBs & Queing to LAN-side devices
 - Remote Management and Secured Remote Management using HTTPS
 - Reverse NAT
 - Static NAT
 - Static Routing
 - Time Zone Support
 - TR-069 Support Available
 - VPN IPSec (VPN passthrough only)

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Technical Specifications

Features	Descriptions		
Physical Specifications	Stand on its side Set horizontally on the desk Wall Mountable		
Environmental	Supports the following environmental conditions: References to ETSI EN 300 019-2-2 V2.1.2 (1999-09) and ETSI EN 300 019-1-3 V2.1.1 (2002-11) Operating Ambient Temperature: 10°C to 40°C, 32°F to 104°F Operating (Circuit Board Ambient) Temperature: 0°C to 70°C, with Relative Humidity: 8% to 95% non-condensing Altitude: -197 to 7000 feet Relative Humidity: 8% to 95% non-condensing Shipping and Storage Temperature: -20°C to 85°C, with Relative Humidity: 5% to 100%		
Regulatory	UL listed FCC Part 15 Subpart B, Class B FCC Part 68 Access point component of the CPE shall be certified, by the Wi-Fi Alliance, with Wi-Fi Protected Access (WPA)		
WAN Protocols	IP Version 4 IP Version 6 upgradeable RFC 0768 "User Datagram Protocol" RFC 0791 "Internet Protocol" RFC 0792 "Internet Control Message Protocol" RFC 0793 "Transmission Control Protocol" RFC 0826 "Ethernet Address Resolution Protocol (ARP)" RFC 0894 "Standards for the Transmission of IP Datagrams over Ethernet Networks" RFC 0922 "Broadcasting Internet Datagrams in the Presence of Subnets" RFC 0950 "Internet Standard Subnetting Procedure" RFC 1042 "Standard for the Transmission of IP Datagrams over IEEE 802 Networks" RFC 1112 "Host Extensions for IP Multicasting" RFC 1122 "Requirements for Internet Hosts - Communication Layers" RFC 1123 "Requirements for Internet Hosts - Application and Support" RFC 1256 "ICMP Router Discovery Messages" RFC 1519 "Classless Inter- Domain Routing (CIDR)" RFC 1812 "Requirements for IP Version 4 Routers" RFC 1918 "Address Allocation for Private Internets" RFC 2246 "The LS Protocol v1.0" (HTTP) RFC 2616 "Hypertext Transfer Protocol—1.1" (HTTP) RFC 2818 "HTTP over TLS" RFC 3300 "Internet Official Protocol Standards"	WAN Protocols (cont'd)	Allow IPSec pass through for a minimum of 4 concurrent LAN IPsec sessions per LAN Port Ability to bridge IP over Ethernet Support PPPoE over the encapsulated Ethernet as defined in RFCs 2516, including support of 8-byte overhead MSS adjustment Support auto-detect of either PPPoE or DHCP as described in the document entitled "CPE_DCHP-PPPoE_AutoDetect_Definition_V3" PPPoE over the encapsulated Ethernet as defined in RFCs 2516, including support of 8-byte overhead MSS adjustment.RFC 1812 "Requirements for IP Version 4 Routers"
		IP Addressing	Default IP address of 192.168.1.1 for local VDSL Gateway addressing Default subnet mask of 255.255.255.0 for assignment to DHCP leases for local Gateway addressing Configurable to specify alternate private subnets (without restriction) for local Gateway addressing. Manually configurable to specify the start address within a subnet used for local addressing Manually configurable to specify the stop address within a subnet used for local addressing Automatically negotiate its Internet IP address (WAN IP Assignment) whenever it is powered-on or reset Configurable to use a Static IP address Support Static Address Maps for up to 5 IP pre-selected hosts Support RFC 2663 "IP Network Address Translator (NAT) Terminology and Considerations" Support RFC 3022 "Traditional IP Network Address Translator (Traditional NAT)"
		LAN	4 LAN facing Ethernet ports Support, at a minimum, a 256 MAC address table for LAN Devices Comply with IEEE 802.1D, Bridging between all LAN interfaces; including Spanning Tree Protocol (STP) DHCP Support a minimum of 253 LAN devices DNS Support manual configuration of DNS entries Support Dynamic DNS, RFC 2136 ARP/RARP Display the ARP table upon request

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Technical Specifications (cont'd)

<p>Standards Compliance</p> <p>TR-069 Compliant</p> <p>Ability to release and renew its WAN DHCP address based on a remote (network based) management request</p> <p>CMS Certification</p> <p>TR-111</p> <p>Support interoperability with TR-111: Applying TR-069 to Remote Management of Home Devices</p> <p>TR-064 (future upgradeable)</p> <p>TR-098</p> <p>QoS</p> <p>Support Ethernet 802.1P/Q Prioritization</p> <p>DiffServ</p> <p>Support RFC 2474 "Differentiated Services Field"</p> <p>Support RFC 2475 "Architecture for Differentiated Services"</p> <p>Support RFC 2598 "An Expedited Forwarding PHB"</p> <p>Support three strict priority queues for Upstream and Downstream traffic</p> <p>Support up to eight upstream traffic classes on WAN interface</p> <p>Support traffic prioritization, and policing on all network interfaces</p> <p>Support common firewall functions, such as access control, port forwarding, DMZ, port triggering, remote administration, website blocking, and filtering</p> <p>Configurable to allow specifying or selecting the following: Source and/or destination IP address, source and/or destination IP range, host names, protocol, source and/or destination ports, MAC addresses, egress and ingress interfaces, for each firewall function if applicable</p> <p>Support static NAT in addition to common NAT functions</p> <p>Honor layer 3 QoS markings including TOS, DSCP, IP precedence bits</p> <p>The mapping between layer 3 and layer 2 QoS marking is configurable</p> <p>Support traffic shaping or rate shaping on each egress and ingress interface</p> <p>Support priority queuing, weighted fair queuing, custom queuing, and FIFO</p> <p>Support DHCP vendor class identifier extension</p> <p>Support Traffic classification based on DHCP Option 60</p> <p>Firewall</p> <p>Stateful Packet Inspection (SPI) Firewall</p> <p>Pre-defined Security Policies</p> <p>Even Logging</p> <p>Denial of Service (DoS) protection:</p> <p>General: Ping Flood, ICMP Echo Storm, UDS Snork Attack, ICMP Smurf, UDS Fraggle, TCP Window Checks, Invalid TCP Options, TCP Flags, TCP 3WHS, TCP LAND, TCP 3SYN/UDP/ICMP Flood, PROTOS Attacks, Short IP Packets</p>		<p>Firewall (cont'd)</p> <p>IP Spoofing Attacks: FTP Bounce, Broadcast /Multicast Source IP Attack</p> <p>Intrusion and Scanning Attacks: IP Source Router, ICMP Echo Reply without Request, ICMP Ping Sweep, TCP Stealth Scan (FIN XMAS, NULL), UDP Port, FTP Passive Attack, Loopback/Echo Chargen</p> <p>IP Fragmen Overlap: Teardrop, Teardrop2, Newtear, Opeear, Bonk, Boink Syndrop, Nestea</p> <p>Ping of Death: SSPing, Jolt, Jolt2, Flushot Attack, Oshare Attack</p> <p>Fragmentation Attacks: Overlap, Changed Data, Changed Length, Microfragments, Empty Fragments, TCP Header Fragments</p> <p>DMZ (Demilitarized Zone) Hosting</p> <p>Access Control</p> <p>Remote Access Control (HTTP, SNMP, Telnet, Diagnostics)</p> <p>Block Internet Services from LAN hosts</p> <p>Intrusion Detection</p> <p>Firewall Breach E-mail Notification</p> <p>MAC Address Filtering</p> <p>Control IP-TOS Manipulation with Firewall Rules</p> <p>TCP MTU Clamping</p> <p>Support for ACL & ALG</p> <p>Wireless LAN Module</p> <p>IEEE 802.11g</p> <p>IEEE 802.11b backward compatible</p> <p>IEEE 802.11i</p> <p>Capable to monitor wireless connections to various client devices for parameters such as signal strength and throughput.</p> <p>Configurable multiple RF transmission power levels</p> <p>Multiple Encryption Options Supported: 64 & 128 bit WEP encryption, WPA, 802.1x, and RADIUS authentication</p> <p>64 bit WEP is enabled by default</p> <p>Antenna system has an omni-directional transmit/receive pattern</p> <p>Maximum Transmit Power (EIRP) equal to or greater than 100 mW when operating in the 802.11g mode</p> <p>SSID Broadcast Enable/Disable</p> <p>Multiple SSIDs supported</p> <p>Automatic Channel Selection during Boot-up</p> <p>Channels 1-11 approved for use in the USA</p>
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Minimum System Requirements

- PC or Macintosh with Ethernet connection
- Microsoft Windows 98SE, Me, 2000, XP, Vista; Mac OS 9 or higher; Linux/BSD, Unix
- TCP/IP Network Protocol Installed
- Internet Explorer 5.0+ or Netscape 7.0+

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