

Wireless Broadband Router

Actiontec continues its string of impressive technological advances with the introduction of its newest powerhouse, the Wireless Broadband Router. The Wireless Broadband Router features support for the new Multimedia over Coax Alliance (MoCA) networking standard that permits digital entertainment and information content to be transmitted and distributed to multiple devices in the home over coaxial cable.

Ready for Triple Play Environments

A high-end CPU (capable of processing as much as 80 times the throughput as earlier-generation broadband routers) makes it possible for the Wireless Broadband Router to handle multiple high-throughput media streams simultaneously, including standard and HDTV-based video programming. Networks can be set up to feed personal video recording functionality from a single set top box or other digital storage device to any TV in the house. The router also supports Ethernet and Wi-Fi as well as coax networking, and it allows telcos to assign bandwidth priorities for data, video on demand and voice over IP traffic to ensure quality of service in triple play environments.



Model # MI424-WR

Even Easier to Use

In an effort to make the Wireless Broadband Router as uncomplicated as possible to deploy and use, the graphical user interface was redesigned from the ground up. Now, it's a snap to check the status of the network or the broadband connection's IP address. Nearly all other configuration options are one or two clicks away, and the home page can be customized with specific Internet links or other online services.

Protection and Security

With all that data coming in, the security features had better be first rate, and the Wireless Broadband Router doesn't disappoint. The router ships with wireless encryption using WEP turned on by default and offers enterprise-level security, including a fully customizable firewall with Stateful Packet Inspection, denial of service protection, content filtering, and intrusion detection to keep unwanted visitors from accessing the user's network. The Wireless Broadband Router also offers Parental control capabilities, including user-defined site blocking by URL, the ability to customize filtering policies for each computer, and user notification of attempted access to restricted sites.

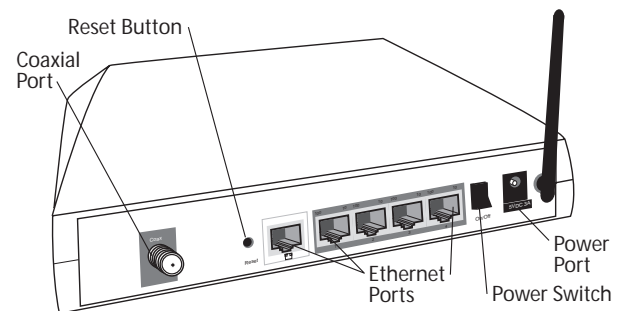
Wireless Broadband Router

Features

- Supports multiple networking standards
 - WAN: Ethernet and MoCA interfaces
 - LAN: 802.11g, 802.11b, Ethernet, MoCA
- Integrated Wired Networking with 4 Port 10/100 Mbps Ethernet Switch and MoCA.
- 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
 - ICSA Certified
- Other Features
 - DHCP Server Option
 - DHCP Server/PPPoE Server Auto Detection
 - DNS Server
 - 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 & Queuing to LAN-side devices

- Remote Management and Secured Remote Management using HTTPS
- Reverse NAT
- Static NAT
- Static Routing
- Time/Zone Support
- VPN IPSec (VPN passthrough only)

Ports at Rear of Unit



Model # M1424-WR

Wireless Broadband Router

Technical Specifications

Features	Descriptions
Wireless	IEEE 802.11b IEEE 802.11g IEEE 802.1x) SSID Broadcast Enable/Disable WPA WEP 64/128 bit Encryption MAC Filtering Automatic Channel Selection during Boot-up Antenna Omni-Directional Transmit/Receive Pattern
Ethernet	ISO/IEC 8802-3: ANSI/IEEE Standard 802.3 part 3 IEEE 802.3x – Full Duplex Capable IEEE 802.3u – Auto-Negotiation RFC 1213 “Management Information Base for Network Management of TCP/IP-based Internet: MIB-II” D-I-X “The Ethernet – A Local Area Network: Data Link Layer and Physical Layer Specifications” Ports are 10/100BASE T.
Bridge	Transparent MAC Level Bridge for Ethernet-like Devices in Conformance with the IEEE 802.1d Specification. ISO/IEC 10038:1993(E), Std 802.1d STP (Spanning Tree Protocol) 802.1q (VLAN)
IP	IP Version 4 Future Upgradeable to IP Version 6 RFC 0791 “Internet Protocol” RFC 0894 “Standard 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 3300 “Internet Official Protocol Standards”
ARP	RFC 0826 “Ethernet Address Resolution Protocol or Converting Network Protocol Addresses to 48-bit Ethernet Address for Transmission on Ethernet Hardware”
ICMP	RFC 0792 “Internet Control Message Protocol” RFC 1256 “ICMP Router Discovery Messages”
UDP	RFC 0768 “User Datagram Protocol”
TCP	RFC 0793 “Transmission Control Protocol”
IP Routing and Bridging	RFC 1519 “Classless Inter-Domain Routing (CIDR)” RFC 1918 “Address Allocation for Private Internets” RFC 2236 “Internet Group Management Protocol v.2 (IP Multicasting)” Static Routing Routing Table Control Bridge WAN/LAN Transparent Bridging Transparent Bridging Between LAN Devices Automatic Discovery of MAC Addresses Spanning Tree Protocol
HTTP	RFC 2246 “The TLS Protocol v.1.0” RFC 2616 “Hypertext Transfer Protocol – HTTP/1.1” RFC 2818 “HTTP over TLS”
DHCP Server	RFC 2131 “Dynamic Host Configuration Protocol” RFC 2132 “DHCP Options and BOOTP Vendor Extensions”
DHCP Client	RFC 2131 “Dynamic Host Configuration Protocol” RFC 2132 “DHCP Options and BOOTP Vendor Extensions” The DHCP client supports the following minimal subset of options described in RFC 2132: Requested IP Address (Requested by default is mandatory.) Parameter Request List (Subnet Mask only) IP Address Lease Time (DHCP Lease Time) Client Identifier (DHCP Client Identifier) Default Route (Routers) DNS Servers
DNS	RFC 2136 “Dynamic DNS” NetBIOS
NAT, PAT (IP Masquerading)	RFC 2663 “IP Network Address Translator (NAT) Terminology and Considerations” RFC 3022 “Traditional IP Network Address Translator (Traditional NAT)”
NAT ALGs (Application Level Gateway)	User defined and predefined applications
NAT Advanced Features	Static NAT Specified IP address local server Local host applications (Games, VoIP) Bi-directional NAT Reverse NAT

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Technical Specifications (cont'd)

<p>Firewall</p>	<p>ICSA Certified Stateful Packet Inspection (SPI) Firewall Pre-defined Security Policies Event Logging Denial of Service (DoS) protection: General: Ping Flood, ICMP Echo Storm, UDP Snork Attack, ICMP Smurf, UDP Fraggle, TCP Window Checks, Invalid TCP Options, TCP Flags, TCP 3WHS, TCP LAND, TCP 3SYN/UDP/ICMP Flood, PROTOS Attacks, Short IP Packets IP Spoofing Attacks: FTP Bounce, Broadcast/Multicast Source IP Attack Intrusion and Scanning Attacks: IP Source Route, ICMP Echo Reply without Request, ICMP Ping Sweep, TCP Stealth Scan (FIN, XMAS, NULL), UDP Port, FTP Passive Attack, Loopback/Echo Chargen IP Fragment Overlap: Teardrop, Teardrop2, Newtear, Opetear, Bonk, Boink Syndrop, Nestea Ping of Death: SSPing, Jolt, Jolt2, Flushot Attack, Oshare Attack Fragmentation Attacks: Overlap, Changed Data, Changed Length, Microfragments, Empty Fragments, TCP Header Fragments DMZ (Demilitarized Zone) Hosting Access Control Remote Access Control (HTTP, SNMP, Telnet, Diagnostics) Block Internet Services from LAN hosts. Intrusion Detection Firewall Breach E-mail Notification MAC Address Filtering Control IP-TOS Manipulation with Firewall Rules TCP MTU Clamping</p>	<p>QoS</p> <p>802.1P/Q Prioritization DiffServ RFC 2474 "Differentiated Services Field" RFC 2475 "Architecture for Differentiated Services" RFC 2598 "An Expedited Forwarding PHB" Configurable Upstream/Downstream Traffic Shaping Between 802.1P User Priorities, DSCPs, and PHBs. Pass-through of WAN-side DSCPs, PHBs and Queuing to LAN-side Devices Supported Random Early Detection (RED): According to queue size According to CPU load</p> <p>MoCA</p> <p>2 MoCA channels: WAN, LAN WAN MoCA Frequency: 975MHz-1025MHz (single channel) LAN MoCA Frequency: 1125MHz-1425MHz (6 channels)</p> <p>Universal Plug-N-Play (UPnP)</p> <p>Internet Gateway Device (IGD) Standardized Device Control Protocol v. 1.0</p> <p>TELNET</p> <p>RFC 0854 "Telnet Protocol Specification" RFC 0855 "Telnet Option Specifications" RFC 0857 "Telnet Echo Option" RFC 0858 "Telnet Suppress Go Ahead Option"</p> <p>FTP Client</p> <p>RFC 0959 "File Transfer Protocol" RFC 1350 "The TFTP Protocol (Revision 2)"</p> <p>Web Server & Web-Based Configuration</p> <p>RFC 1945 "Hypertext Transfer Protocol - HTTP/1.0" RFC 2068 "Hypertext Transfer Protocol - HTTP/1.1" RFC 2617 "HTTP Authentication: Basic and Digest Access Authentication"</p> <p>Setup & Management</p> <p>Web-based</p> <p>Wireless Operating Range</p> <p>Outdoors: Up to 55m (180 ft) @ 54 Mbps Up to 122m (400 ft) @ 18 Mbps Up to 171m (560 ft) @ 11 Mbps Up to 305m (1,000 ft) @ 1 Mbps</p> <p>Environmental Operating Range</p> <p>Operating Ambient Temperature: 0°C to 40°C (32°F to 104°F) Altitude: -197 to 7000 feet Relative Humidity: 8% to 95% non-condensing Operating (Circuit Board Ambient) Temperature: 0°C to 70°C Relative Humidity: 8% to 95% non-condensing Shipping and Storage Temperature: -20°C to 85°C Relative Humidity: 5% to 100% non-condensing</p>
<p>Content Filtering</p>	<p>Web Filtering Service 40 Content Filtering Categories Customizable Filtering Policies per LAN Host Scheduled Filtering Policy Enforcement Web-based Filtering Statistics Reports Parental Control Service Office Productivity Control Service URL Keyword-Based Filtering Customizable Filtering per LAN Host Parental Control User Defined Blocked Sites User Notification upon Restricted Site Access Attempt Subscription to Online services available</p>	

Flip this datasheet over to continue ⇨

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Technical Specifications (cont'd)

Power Requirements	5VDC, 3A
Regulatory Compliance	FCC Part 15 UL 60950-1
DSL Forum Compliance	TR-069 and TR-094 Compliant
Physical Placement Options	Stand on its side (Vertical stand included.) Sit horizontally Mount on a wall (Mounting template included.)
LEDs	Power Ethernet WAN Coax WAN Internet Ethernet LAN Coax LAN Wireless

Minimum System Requirements

- PC or Macintosh with Ethernet or 802.11b/802.11g wireless or MoCA connection.
- Microsoft Windows 98SE, Me, 2000, XP; Mac OS 9 or higher; Linux/BSD, Unix
- TCP/IP Network Protocol Installed
- Internet Explorer 5.0+ or Netscape 7.0+

Package Contents

- Actiontec Wireless Broadband Router
- Vertical Stand
- Black Power Cord
- Yellow 6ft. Ethernet Cable
- White 10ft. Ethernet Cable
- Quick Start Guide
- Installation Guide
- Wireless Networking Guide
- User Manual CD-ROM
- Wall Mount Template
- Warranty Statement

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