

# AT-AR240E ADSL Router

AT-AR240E, ADSL Bridge/Router with 1 Ethernet port and 1 USB port



## KEY FEATURES

Supports both G.DMT & G.Lite ADSL standards

Up to 8Mbps downstream, and up to 1Mbps upstream data rate

1 x ADSL, G.DMT & G.Lite

1 x USB Port

1 x Ethernet Port

Network Address Translation (NAT)

Integral Stateful Inspection Firewall

Integral Intrusion Detection System

IPsec Pass-through

PPTP Pass-through

Dynamic port opening for gaming applications

Browser-based GUI

Global IP address pool on ADSL WAN port

PAP/CHAP Authentication

Dynamic IP address Assignment

Static IP address assignment

Dynamic Host Configuration Protocol (DHCP) server/relay

IP Multihoming

SNMP V1

Compact form factor

Includes 1 year Net.Cover Basic Plus service plan

Flash upgradeable

## HIGH-BANDWIDTH ACCESS TO THE INTERNET AND CORPORATE LAN

The Allied Telesyn AT-AR240E is the perfect solution for the small office or branch office that wants to use high speed, 'always on' ADSL services to access the Internet or other corporate locations. Combining an ADSL modem, IP Router and powerful Stateful Inspection Firewall into one affordable unit, the AT-AR240E provides the ideal solution for bandwidth hungry end-users and ADSL service providers - who need security.

The AT-AR240E is easily installed over an existing analogue line, supporting standard voice operation together with state-of-the-art ADSL services. Applications include data intensive office use, fast web download, video-on-demand, video streaming and telecommuting via VPN.

## BUSINESS-CLASS STATEFUL INSPECTION FIREWALL WITH INTRUSION DETECTION

Because ADSL offers an 'always-on' connection, users are actually more at risk using this service than with conventional modem dial-up. To counter this threat, the AT-AR240E is equipped with a powerful Stateful Inspection Firewall that protects against malicious attacks from the Internet - giving peace of mind security for the home and office LAN. Preconfigured firewall settings of 'LOW', 'MEDIUM' or 'HIGH' may be selected, or, alternatively, the user may specify a customised security policy.

In addition, a built in 'Intrusion Detection System' protects against a wide range of Denial of Service attacks including Ping of Death, SYN/FIN Flooding, Smurf attacks, Port scans, FRAG attack and IP Spoofing. Network Address Translation (NAT) also 'hides' all LAN users behind one public IP address, protecting the LAN from external hackers. The AT-AR240E's advanced NAT operation also supports global IP address pools - for multiple web-server support, and comprehensive protocol and port mapping for extensive application support. Virtual Private Network (VPN) operation is transparently supported using PPTP and IPsec passthrough, for teleworker applications.

## IPSEC AND PPTP PASSTHROUGH FOR SECURE VPN OPERATION

Transparent passthrough for Microsoft's Point to Point Tunneling Protocol (PPTP) and IPsec allows organisations to extend their corporate network to remote users and branch offices, by building a Virtual Private Network (VPN) across the Internet using secure 'tunnels'. This eliminates the cost of long distance dial-ups and the need for remote access server (RAS) equipment.

## THE SERVICE PROVIDER'S CHOICE

Using industry-standard Discrete Multi-Tone technology (DMT), the AT-AR240E supports network speeds up to 8Mbps downstream and up to 1Mbps upstream. Alternatively, G.Lite is supported for applications where minimum cost and tool-free installation is required. Close partnering with Digital Subscriber Line Access Multiplexer (DSLAM) vendors ensures the highest levels of interoperability for service providers, with extensive ADSL testing being carried out. Built-in support for PPP over Ethernet (PPPoE) and PPP over ATM (PPPoA) provides full compatibility with existing ISP dial-up systems. Bridged Ethernet and IP over ATM complete the range of flexible and robust network connectivity options. Superior rate/ reach performance ensures that service providers and users alike enjoy maximum data throughput at maximum line-lengths from the exchange.

## FLASH SOFTWARE UPDATE

The AT-AR240E can be upgraded simply and quickly by loading new firmware into Flash memory using a simple Windows-based Trivial File Transfer Profile (TFTP) application. New enhancements can be loaded into the unit in a matter of seconds.

## EASY TO SET UP

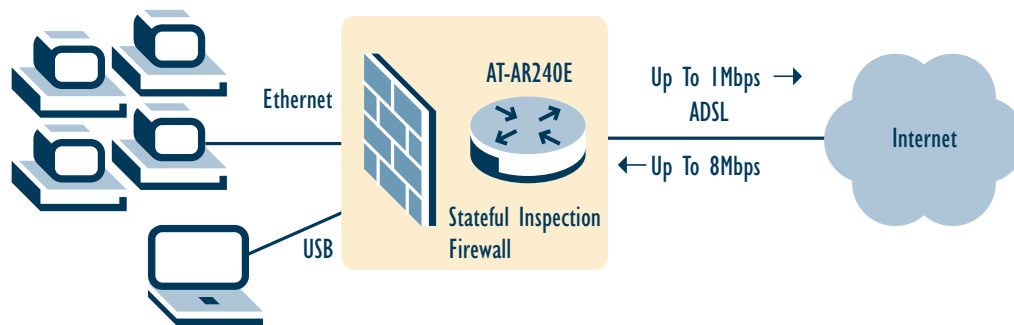
Installation takes a matter of minutes using the simple, Browser-based configuration interface. Standard cabling is used to connect to the Ethernet LAN and ADSL line. All cables, including USB, are supplied with the product. All TCP/IP operating systems are supported including Windows 95/98/ME/2000/NT, Unix and MAC. An integral DHCP server provides automatic IP address assignment to all PC's on the LAN, while both static and dynamic IP address assignment from the ISP are supported. The AT-AR240E is ideal for 'wires-only', self-install services.

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ROUTERS

Allied Telesyn

## BRANCH OFFICE TO CORPORATE OFFICE CONNECTIVITY



In the diagram above, the Ethernet and USB users share a single high-speed ADSL link to the Internet. They are also protected by a powerful Stateful Inspection Firewall which protects all LAN users from malicious attack, including Denial of Service (DoS) attacks. The AT-AR240E supports both Ethernet and USB ports; both can be operated simultaneously in routing mode.

### ADSL LINE

G.DMT (G992.1)  
 G.Lite (G.992.2)  
 ANSI (T1.413)  
 Connector: RJ-11  
 Downstream datarate: 32kbps to 8Mbps  
 Upstream datarate: 32kbps to 1Mbps, Rate Adaptive  
 8 PVC's over AALS  
 CBR and UBR traffic shaping  
 Tool-free set-up

### PHYSICAL INTERFACES

AT-AR240E ADSL Bridge/Router

- 1 x 10T Ethernet port (RJ45)
- 1 x USB port
- 1 x ADSL port (RJ-11)
- 1 x Tel port  
(May require an External filter)

Power

Status LEDs Power, Sync, Alarm, ATM Activity

### POWER CHARACTERISTICS

External 5VDC, 0.4A, 2W

### PHYSICAL CHARACTERISTICS

Dimensions (W/H/D) 170mm x 35mm x 115mm  
 Weight 300g

### ENVIRONMENTAL CHARACTERISTICS

Operating Temp. 0°C to 45°C  
 Storage Temp. -25°C to 70°C  
 Relative Humidity 10% to 90%

### STANDARDS AND COMPLIANCE

RFC 1483 Encapsulation (IP, Bridging & encapsulated routing)  
 RFC 2364 PPP over ATM (LLC & VC multiplexing)  
 RFC1577 Classical IP (IP over ATM)  
 RFC 2516 PPPoE  
 RFC 2131 DHCP  
 RFC 1334 PAP  
 RFC 1541 DNS  
 RFC 791 IP  
 RFC 793 TCP  
 RFC 1631 NAT  
 RFC 1994 CHAP  
 RFC 1144 TCP/IP

### ELECTRICAL/MECHANICAL APPROVALS

CE  
 EN 60950 (Safety Europe)  
 EN55022 Class B (Immunity)

### FEATURE SUMMARY

PPP and IP Routing  
 Stateful Inspection Firewall  
 Intrusion Detection System  
 Dynamic Port Opening for Gaming applications, Real Audio/Video applications etc.  
 Network Address Port Translation (NAPT)  
 Dynamic IP Address Assignment  
 DHCP Server/Relay  
 Global Address pool supported on WAN port  
 PAP/CHAP  
 DNS Proxy  
 Single and Multiple IPSec, PPTP, L2TP VPN pass-through  
 Static IP Address Assignment  
 Browser Based GUI  
 Flash Upgrade  
 Reset switch returns unit to factory default  
 On-line 'HELP'  
 SNMPv1  
 RIPv2

### ORDERING INFORMATION

#### AT-AR240E-xx

ADSL Bridge/Router  
 (1 Ethernet port, 1 USB port)

Where xx = 10 for U.S. power supply  
 30 for U.K. power supply  
 40 for Australian power supply  
 50 for European power supply

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