



## AT-AR410 SERIES

### Modular Branch Office Routers

#### AT-AR410

Modular Branch Office Router

#### AT-AR410S

Secure Modular Branch Office Router

#### Wirespeed EI/TI IPsec VPN Operation

With full Layer 3 multi-protocol routing combined with wirespeed VLAN switching in one compact unit, the AT-AR410 Series re-defines business-class routing. The AT-AR410 Series supports an extensive range of network services using simple modular plug in cards. Offering unprecedented flexibility and performance in such a compact unit, the AT-AR410 Series is particularly suited to TI/EI applications where even the most data-intensive VPN operation is supported at full EI/TI speeds. The AT-AR410 Series is designed for the Small to Medium Enterprise (SME) and the branch office where multiple workgroups will benefit from VLAN separation together with high performance VPN tunnel operation for connection to remote offices and teleworkers, across the Internet. Businesses can also enjoy the cost advantages of Frame Relay networking at wirespeed EI/TI rates.

#### Unique VLAN Operation With Integral 4 X 10/100MBPS Switch

Unique for a product in this price bracket, the AT-AR410 Series routers support port-based and 802.1q tagged VLAN operations across their 4 x 10/100Mbps switch ports. This capability offers a potent combination of wirespeed L2 switching between VLANs as well as high performance L3 routing between VLANs in one highly cost-effective unit\*. By supporting Layer 3 routing between VLANs at a sustained rate of 8,500 PPS for 64 byte packets, the AT-AR410 Series is a price breakthrough for small offices that have previously found the benefits of VLAN routing to be cost prohibitive.

#### Simple Plug-in Flexibility

A range of different Port Interface Cards (PICs) can be plugged into the external network slot, including high speed EI/TI, V35/V21 sync, BRI/PRI ISDN and Ethernet PICs. This permits simple, affordable connectivity to today's network while allowing you to protect your investment and upgrade to new, speedier services in the future. Interface cards can be swapped in seconds and are automatically detected by the routers. These interface cards are shared with the Allied Telesyn AT-AR700 Series of Enterprise routers, as well as the Rapier family of Layer 3 switches. The onboard management/async port can be used for local management or for connection to an external modem.

#### Stateful Inspection Firewall and DMZ

Allied Telesyn's state of the art, stateful inspection firewall provides the highest level of security possible by providing full application-layer awareness without breaking the client/server model. Stateful inspection extracts the state-related information required for security decisions from all application layers and maintains this information in dynamic state tables for evaluating subsequent connection attempts. It also protects against a wide range of Denial of Service (DoS) attacks including Ping of Death, SYN/FIN flooding, Smurf attacks, port scans, fragment attacks and IP spoofing. E-mail alerts are automatically triggered when such attacks are detected. This provides a solution that is highly secure and offers maximum performance, scalability, and extensibility. This feature is part of the optional security bundle on the AT-AR410 and is standard on the AT-AR410S.

\* Each AT-AR410 switch port can only be a member of one tagged or untagged VLAN.

#### Key Features

- Port Interface Card (PIC) bay supporting a range of LAN/WAN interfaces
- High-performance IPsec DES & 3DES VPN
- Stateful Inspection Firewall
- 10/100Mbps Ethernet LAN/WAN port
- Integral 4 x 10/100Mbps full duplex Ethernet switch
- Port-based VLAN operation on 4 switch ports
- 8Mb Flash for storage of two software releases
- OSPF
- BGP-4 (Optional)
- CLI & SNMPv3 management
- Web GUI

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## Software QoS

Allied Telesyn's AlliedWare software release 2.7.1 provides advanced QoS and shaping features on the AT-AR410 Series. There are five key new QoS features available in this release—Bandwidth Metering, RED Curves, Mixed Scheduling, Virtual Bandwidth, and DAR. This release also supports eight queues per interface. Dynamic Application Recognition (DAR) is used to snoop for session setup exchanges and dynamically create classifiers that match the voice and video packets in the session. For more information about these advanced QoS features, see the Allied Telesyn Advanced QoS White Paper (November 2004) available on our website.

## Hardware Accelerator for VPN and IPsec

The AT-AR410 Series optional hardware accelerator cards provide high performance compression and/or DES and 3DES encryption on all PPP and Frame Relay links. By offloading this work from the central routing processor, these hardware accelerators will ensure that DES-based IPsec and VPN operation will run at true wirespeed E1/T1 rates, hence maximising costly WAN links.

## Configuration and Management

- Telnet remote management is supported across the LAN and WAN
- The AT-AR410 Series supports Secure Shell (SSH) connections, which provide authenticated and encrypted secure remote management. SSH clients are available from third parties.
- The AT-AR410 Series also supports SNMPv1, SNMPv2, SNMPv3, MIB II and Enterprise MIB

## About Allied Telesyn

Allied Telesyn International is a member of the Allied Telesis Group (ATI), which, founded in 1987, now has offices around the globe, over 2,800 employees and over \$500M of worldwide annual revenue. The attributes which have led ATI to achieve its leading position in the enterprise, operator and connectivity business segments can be summarised by four key elements: its business focus on networking technology for professional markets, where ATI has proved to be the only company capable of providing a total end-to-end solution at a high price/performance ratio; the ability to handle every aspect of its own products from design to marketing; the development of components and solutions which accommodate flexible, efficient and reliable network constructions; and support from sound warranty terms and quality

services. Allied Telesyn connects the IP world efficiently thanks to affordable and highly reliable network solutions. For more information see: [www.alliedtelesyn.com](http://www.alliedtelesyn.com)

## Service and Support

Allied Telesyn provides value added support services for its customers under its Net.Cover<sup>SM</sup> programs. For more information on Net.Cover<sup>SM</sup> support programs available in your area, contact your Allied Telesyn sales representative or visit our website: [www.alliedtelesyn.com](http://www.alliedtelesyn.com)

## Feature Summary

### Dial-up Networking (ISDN & analog)

Calling Line ID (CLI)  
Dial-on-Demand  
CLI Call-back  
Multilink PPP (MPP)  
Bandwidth Allocation Control Protocol (BAP/BACP)  
Always on Dynamic ISDN (AODI)

### Leased Line

SYNC up to 2 Mbps  
E1/T1/G.703 Unchannelized / Channelized

### LAN Protocols

IP  
IPX/SPX  
Appletalk  
IPX/SPX Spoofing  
PPPoE

### Routing Protocols

Static Routes  
RIP & RIPV2  
OSPF  
BGP-4 (option)

### WAN Protocols

Frame Relay  
X.25  
DecNetIV

### Remote Access Dial-in Support

Asynchronous Serial Ports with Routing Support

### LAN Bridging

Spanning Tree

### Compression

STAC Compression

### IP Address Management

IP Multihoming  
Dynamic IP address assignment  
DHCP

## Authentication

CLI, PAP/CHAP Authentication  
RADIUS/TACACS Authentication

## VPN and Security

NAT (Network Address Translation)  
PAT (Port address translation)  
IP Packet Filtering  
Generic Routing Encapsulation (GRE)  
L2TP Access Concentrator / Network Server  
ICSA-certified Stateful Inspection Firewall  
Hardware 56-bit DES Encryption (option)  
Triple DES Encryption (option)  
ICSA-certified IPsec  
IKE  
Secure Shell Remote Management (SSH)  
Secure Socket Layer (SSL) for secure GUI, or in conjunction with the load balancer

## VLANs

Port-based VLAN operation on 4 switch ports  
Up to 4 VLANs  
Wirespeed switching between VLANs  
Tagging supported in 'upstream' direction only

## Traffic Shaping and QoS

IP Packet Prioritisation  
RSVP  
DiffServ  
Upstream bandwidth limiting  
Rapid Spanning Tree Protocol (RSTP)

## Redundancy

Virtual Router Redundancy Protocol (VRRP)

## Configuration and Management

Console Port  
Command Line Interface  
Telnet  
Web Browser  
SNMP / SNMPv2c / SNMPv3

## Power Characteristics

Input Voltage: 100-240vAC, 50-60Hz, 10W  
Max Power Consumption: 17.6W (+3V3@2A, +5V@1A, +12V@0.5A)  
Integral universal power supply  
Security clip to retain IEC power cord

## Physical Characteristics

IU Rack mount  
Depth: 190mm  
Width: 305mm  
Weight: 1.75kg (3.75lbs)

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## Environmental Characteristics

Operating temperature range:  
0°C - 40°C (32°F - 104°F)  
Storage temperature range:  
-25°C - 70°C (-13°F - 158°F)  
Relative humidity range:  
5 - 95% non-condensing

## Approvals

EMC  
Emissions: EN55022 class A, FCC class A, VCCI class I, AS/NZS3548 class A  
Immunity: EN55024  
Safety: UL60950, CAN/CSA-C22.2 NO. 60950-00, EN60950, AS/NZS3260  
Listing: UL, cUL

## Network Interface (where applicable to PIC)

ISDN Limited Network Protocol Analysis, FCC Part 68, Subpart D, IC CS-03 Issue 8 Part I and VI, CTR2, CTR3/A1, CTR4, ACA TS031

## Hardware Features

\* An MDI/MDI-X selection switch is provided for port 4.  
Ports 1 to 3 are hard-wired in MDI-X mode  
\*\* used for high performance Encryption and Compression

	Fixed Ports/Base Unit Optional PIC Module	Optional PIC Module
10/100Mbps F/D Ethernet LAN/WAN	1	4
10/100Mbps F/D Ethernet Switched ports*	4	-
Port Interface Card Slots	1	-
Internal Mini Accelerator Card Slot**	1	-
Asynchronous RS232 Interface to 115kbps	1	4
Synchronous Interface to 2Mbps	-	1
ISDN BRI (U & S/T)	-	1
ISDN PRI	-	1
T1/E1/G.703 to 2Mbps	-	1

## Memory

DRAM: 16Mb  
Flash: 8Mb (can store two images)

## Reliability

MTBF: 50,000 hours min  
MTTR: 0.5 hours max  
Warranty: 2 years

## Country of Origin

China

## Standards and Protocols

Software Release 2.7.1

### BGP-4

RFC 1771 Border Gateway Protocol 4  
RFC 3065 Autonomous System Confederations for BGP  
RFC 1997 BGP Communities Attribute  
RFC 1998 Multi-home Routing  
RFC 2842 Capabilities Advertisement with BGP-4  
RFC 2858 Multiprotocol Extensions for BGP-4  
RFC 2918 Route Refresh Capability for BGP-4  
RFC 2385 Protection of BGP Sessions via the TCP MD5 Signature Option

### Encryption

FIPS 46-3 DES  
FIPS 46-3 3DES  
FIPS 180 SHA-1  
FIPS 186 RSA  
RFC 2104 HMAC

### Ethernet

IEEE 802.1D MAC Bridges  
IEEE 802.1G Remote MAC Bridging  
IEEE 802.2 Logical Link Control  
IEEE 802.3u 100BASE-T  
IEEE 802.3x Full Duplex Operation  
IEEE 802.3ac VLAN TAG  
IEEE 802.3ad (static) Link Aggregation  
IEEE 802.1Q Virtual LANs  
IEEE 802.1v VLAN Classification by Protocol and Port  
RFC 894 Ethernet II Encapsulation

### General Routing

RFC 1918 IP Addressing  
RFC 791 IP  
RFC 950 Subnetting, ICMP  
RFC 1812 Router Requirements  
RFC 1055 SLIP  
RFC 1122 Internet Host Requirements  
RFC 1582 RIP on Demand Circuits  
"IPX Router Specification", v1.2, Novell, Inc., Part Number 107-000029-001 IPX Router Specification  
RFC 792 ICMP  
RFC 1288 Finger  
RFC 1701 GRE  
RFC 1702 GRE over IPv4  
RFC 2131 DHCP  
RFC 1542 BootP  
RFC 826 ARP  
RFC 925 Multi-LAN ARP  
RFC 3232 Assigned Numbers  
RFC 2661 L2TP  
RFC 2822 Internet Message Format  
RFC 903 Reverse ARP  
RFC 1027 Proxy ARP  
RFC 793 TCP  
RFC 768 UDP  
RFC 1144 Van Jacobson's Compression  
AppleTalk  
ISO 9542 End System to Intermediate System Protocol  
RFC 2390 Inverse Address Resolution Protocol  
RFC 1142 OSI IS-IS Intra-domain Routing Protocol  
ISO 10589, ISO 10589 Technical Corrigendums 1, 2, 3,  
ISO Intermediate System-to-Intermediate System  
ISO 8473, relevant parts of ISO 8348(X.213), ISO 8343/

Add2, ISO 8648, ISO TR 9577 Open System Interconnection  
RFC 1332 The PPP Internet Protocol Control Protocol (IPCP)  
RFC 1334 PPP Authentication Protocols  
RFC 1377 The PPP OSI Network Layer Control Protocol (OSINLCP)  
RFC 1378 The PPP AppleTalk Control Protocol (ATCP)  
RFC 1552 PPP internetworking packet exchange protocol IPXCP  
RFC 1570 PPP LCP Extensions  
RFC 1598 PPP in X.25  
RFC 1618 PPP over ISDN  
RFC 1661 The Point-to-Point Protocol (PPP)  
RFC 1762 The PPP DECnet Phase IV Control Protocol (DNCP)  
RFC 1877 PPP Internet Protocol Control Protocol Extensions for Name Server Addresses  
RFC 1962 The PPP Compression Control Protocol (CCP)  
RFC 1968 The PPP Encryption Control Protocol (ECP)  
RFC 1974 PPP Stac LZS Compression Protocol  
RFC 1978 PPP Predictor Compression Protocol  
RFC 1989 PPP Link Quality Monitoring  
RFC 1990 The PPP Multilink Protocol (MP)  
RFC 1994 PPP Challenge Handshake Authentication Protocol (CHAP)  
RFC 2125 The PPP Bandwidth Allocation Protocol (BAP) / The PPP Bandwidth Allocation Control Protocol (BACP)  
RFC 2516 A Method for Transmitting PPP Over Ethernet (PPPoE)  
RFC 2878 PPP Bridging Control Protocol (BCP)  
RFC 3022 Traditional NAT  
RFC 1256 ICMP Router Discovery Messages

## IP Multicasting

RFC 2236 IGMPv2  
RFC 1075 DVMRP  
draft-ietf-idmr-dvmrp-v3-9 DVMRP  
RFC 1112 Host Extensions  
RFC 1812 Router Requirements  
RFC 2715 Interoperability Rules for Multicast Routing Protocols  
RFC 2362 PIM-SM  
draft-ietf-pim-dm-new-v2-04 PIM-DM  
draft-ietf-pim-sm-v2-new-09 PIM-SM

## IPsec

RFC 2395 IPsec Compression - LZS  
RFC 2401 Security Architecture for IP  
RFC 2402 AH - IP Authentication Header  
RFC 2403 IPsec Authentication - MD5  
RFC 2404 IPsec Authentication - SHA-1  
RFC 2405 IPsec Encryption - DES  
RFC 2406 ESP - IPsec encryption  
RFC 2407 IPsec DOI  
RFC 2408 ISAKMP  
RFC 2409 IKE  
RFC 2410 IPsec encryption - NULL  
RFC 2411 IP Security Document Roadmap  
RFC 2412 OAKLEY  
RFC 1829 IPsec algorithm  
RFC 2451 The ESP CBC-Mode Cipher Algorithms  
RFC 3173 IPComp  
RFC 1828 IP Authentication using Keyed MD5

## IPv6

draft-ietf-ngtrans-hometun-01 IPv6 over IPv4 tunnels for home to Internet access  
RFC 1981 Path MTU Discovery for IPv6  
RFC 2375 IPv6 Multicast Address Assignments  
RFC 2460 IPv6

RFC 2080 RIPng for IPv6  
RFC 2461 Neighbour Discovery for IPv6  
RFC 2462 IPv6 Stateless Address Autoconfiguration  
RFC 2463 ICMPv6  
RFC 2464 Transmission of IPv6 Packets over Ethernet Networks  
RFC 2472 IPv6 over PPP  
RFC draft-vida-ml-d-v2 Multicast Listener Discovery (MLD) for IPv6  
draft-ietf-ngtrans-introduction-to-ipv6-transition-06 An overview of the introduction of IPv6 in the Internet  
RFC 2526 Reserved IPv6 Subnet Anycast Addresses  
RFC 2711 IPv6 Router Alert Option  
RFC 3056 Connection of IPv6 Domains via IPv4 Clouds  
RFC 3315 DHCPv6  
RFC 3633 IPv6 Prefix Options for Dynamic Host Configuration Protocol  
RFC 3596 DNS Extensions to support IP version 6  
RFC 3513 Internet Protocol Version 6 (IPv6) Addressing Architecture  
RFC 3484 Default Address Selection for Internet Protocol version 6  
RFC 2710 Multicast Listener Discovery (MLD) for IPv6  
draft-vida-ml-d-v2-08 Multicast Listener Discovery (MLD) for IPv6, Version 2  
RFC 2766 NAT-PT  
RFC 2529 Transmission of IPv6 over IPv4 Domains without Explicit Tunnels  
RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers  
RFC 3646 DNS Configuration options for Dynamic Host Configuration Protocol for IPv6 (DHCPv6)  
RFC 3587 IPv6 Global Unicast Address Format  
RFC 2365 Administratively Scoped IP Multicast  
RFC 3306 Supported IPv6 standards  
RFC 3307 Allocation Guidelines for IPv6 Multicast Addresses

## Management

RFC 1155 MIB  
RFC 1157 SNMP  
RFC 1213 MIB-II  
RFC 1643 Ethernet MIB  
RFC 1493 Bridge MIB  
RFC 2790 Host MIB  
RFC 1573 Evolution of the Interfaces Group of MIB-II  
RFC 2338 VRRP  
RFC 1757 RMON (groups 1,2,3 and 9)  
RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions (VLAN)  
RFC 2665 Definitions of Managed Objects for the Ethernet-like Interface Types  
RFC 2580 Conformance Statements for SMIv2  
RFC 2578 Structure of Management Information Version 2 (SMIv2)  
RFC 2096 IP Forwarding Table MIB  
RFC 2012 SNMPv2 MIB for TCP using SMIv2  
RFC 2011 SNMPv2 MIB for IP using SMIv2  
RFC 1657 Definitions of Managed Objects for BGP-4 using SMIv2  
RFC 1515 Definitions of Managed Objects for IEEE 802.3 MAUs  
RFC 2856 Textual Conventions for Additional High Capacity Data Types  
RFC 2579 Textual Conventions for SMIv2  
RFC 1212 Concise MIB definitions  
RFC 2576 Coexistence of SNMPv1, v2 and v3 of the Internet-standard Network Management  
RFC 3410 Introduction and Applicability Statements for

Internet-Standard Management Framework  
RFC 3411 An Architecture for Describing SNMP Management Frameworks.  
RFC 3412 Message Processing and Dispatching for the SNMP.  
RFC 3413 SNMP Applications.  
RFC 3414 User-based Security Model (USM) for SNMPv3  
RFC 3415 View-based Access Control Model (VACM) for the SNMP  
RFC 3416 Version 2 of the Protocol Operations for SNMP  
RFC 3417 Transport Mappings for the SNMP  
RFC 3418 MIB for SNMP  
RFC 3164 Syslog Protocol  
draft-ietf-bridge-8021x-00.txt Port Access Control MIB

## OSPF

RFC 1245 OSPF protocol analysis  
RFC 1246 Experience with the OSPF protocol  
RFC 1583 OSPFv2  
RFC 1793 Extending OSPF to Support Demand Circuits  
RFC 1586 OSPF over Frame Relay  
RFC 2328 OSPF v2  
RFC 1587 The OSPF NSSA Option

## QoS

RFC 1349 Type of Service in the IP Suite  
RFC 2205 Reservation Protocol  
RFC 2211 Controlled-Load  
RFC 2475 An Architecture for Differentiated Services  
IEEE 802.1p Priority Tagging  
RFC 2697 A Single Rate Three Color Marker  
RFC 2698 A Two Rate Three Color Marker  
RFC 2597 Assured Forwarding PHB Group  
RFC 3246 An Expedited Forwarding PHB (Per-Hop Behavior)

## RIP

RFC 1058 RIPv1  
RFC 1723 RIPv2

## Security

IEEE 802.1x Port Based Network Access Control  
draft-yonen-ssh-protocol-00.txt SSH Remote Login Protocol  
RFC 1779 X.500 String Representation of Distinguished Names  
RFC 2459 X.509 Certificate and CRL profile  
RFC 2511 X.509 Certificate Request Message Format  
RFC 2559 PKI X.509 LDAPv2  
RFC 2587 PKI X.509 LDAPv2 Schema  
RFC 2510 PKI X.509 Certificate Management Protocols  
RFC 2585 PKI X.509 Operational Protocols  
PKCS #10 Certificate Request Syntax Standard  
Draft-IETF-PKIX-CMP-Transport-Protocols-01 Transport Protocols for CMP  
RFC 2865 RADIUS  
RFC 2866 RADIUS Accounting  
RFC 1492 TACACS  
draft-grant-tacacs-02.txt TACACS+  
RFC 1413 IDP  
RFC 1858 Fragmentation

## Services

RFC 959 FTP  
RFC 2821 SMTP  
RFC 2049 MIME  
RFC 1985 SMTP Service Extension  
RFC 1305 NTPv3  
RFC 1510 Network Authentication  
RFC 2156 MIXER  
RFC 854 Telnet Protocol Specification

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RFC 855 Telnet Option Specifications  
RFC 856 Telnet Binary Transmission  
RFC 857 Telnet Echo Option  
RFC 858 Telnet Suppress Go Ahead Option  
RFC 1091 Telnet terminal-type option  
RFC 1350 TFTP  
RFC 1179 Line printer daemon protocol  
RFC 932 Subnetwork addressing scheme  
RFC 1945 HTTP/1.0  
RFC 2217 Telnet Com Port Control Option

## SSL

RFC 2246 The TLS Protocol Version 1.0  
draft-freier-ssl-version3-02.txt SSLv3

## STP / RSTP

IEEE 802.1w - 2001 RSTP  
IEEE 802.1t - 2001 802.1D maintenance

## X.25

RFC 1356 Multiprotocol Interconnect on X.25 and ISDN in the Packet Mode  
ITU-T Recommendations X.25 (1988), X.121 (1988), X.25

## ISDN

ANSI T1.231-1997  
ANSI T1.403-1995  
ANSI T1.408-1990  
AT&T TR 54016-1989  
Austel TS 013.1:1990  
Bellcore SR-3887 1997  
TS 013.2:1990  
TS 014.1:1990  
TS 014.2:1990  
ITU G.703  
ITU G.704  
ITU G.706  
ITU-T Recommendations G.703 (1972)  
ITU-T Recommendation Q.922  
G.794 (1988)  
G.706 (1988)  
I.120 (1988)  
I.121 (1988)  
I.411 (1988)  
I.430 (1988)  
I.431 (1988)  
Q.920 (1988)  
Q.921 (1988)  
Q.930 (1988)  
Q.931 (1988)  
ETSI Specifications ETS 300 011:1991  
ETS 300 012:1992  
ETS 300 102-1:1990  
ETS 300 1022:1990  
ETS 300 125:1991  
ETS 300 153:1992  
ETS 300 156:1992  
New Zealand Telecom TNA 134

German Monopol (BAPT 221)  
Japan NTT I.430-a  
Rockwell Bt8370 Fully Integrated TI/EI Frammer and Line Interface data sheet  
Technical Reference of Frame Relay Interface, Ver. 1, November 1993, Nippon Telegraph and Telephone Corporation

## Frame Relay

ANSI T1S1 Frame relay  
RFC 1490, 2427 Multiprotocol Interconnect over Frame Relay

## VoIP

RFC 2543 SIP  
G.711 A/μ law  
G.723.1  
G.729 A/B (Optional)  
H.323 v2

## Ordering Information

AT-AR410-xx  
Modular Branch Office Router

AT-AR410S-xx  
Secure Modular Branch Office Router

Where xx = 10 for U.S. power cord  
20 for no power cord  
30 for U.K. power cord  
40 for Australia power cord  
50 for Europe power cord

## Port Interface Card (PIC) Options

AT-AR020  
Single E1/T1 Primary Rate ISDN

AT-AR021 (U)  
Single Basic Rate ISDN

AT-AR021 (S/T)  
Single Basic Rate ISDN

AT-AR022  
Single 10Mbps Ethernet

AT-AR023  
Single Synchronous to 2Mbps

AT-AR024  
Four Asynchronous to 115Kbps

AT-AR026  
Four 10/100 Fast Ethernet ports

AT-AR027  
FXS VoIP

Options  
AT-AR011 ECMAC  
Provides hardware-based DES and 3DES encryption and compression

AT-AR012 CMAC  
Provides hardware-based STAC compression

AT-AR013 3DES  
Triple DES encryption (software option)

AT-AR400SSECPK  
(AT-AR410 only as these features are included in the Standard AlliedWare of the AT-AR410S)  
Provides Firewall, SMTP proxy, HTTP proxy

AT-AR400 - ADVL3UPGRD  
AR400 series advanced layer 3 upgrade - includes IPv6, BGP-4, IS-IS and load balancer

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