Allied Telesis

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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 E1/T1 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 $4 \times 10/100$ Mbs 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 E1/T1,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 Telesis 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 Telesis' 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 staterelated 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. Email 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 ATAR410 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
 - I0/100Mbps 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

Software QoS

Allied Telesis' 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 Telesis Advanced QoS White Paper 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 Telesis About Allied Telesis

Allied Telesis was founded in 1987 and now has offices around the globe, over 2,800 employees and over \$500M of worldwide annual revenue. The attributes which have led Allied Telesis 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 Allied Telesis 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 construction; and support from sound warranty terms and guality services. Allied Telesis connects the IP world

efficiently thanks to affordable and highly reliable network solutions. For more information see: www.alliedtelesis.com

Service and Support

Allied Telesis provides value-added support services for its customers under its Net.CoverSM programs. For more information on Net.CoverSM support programs available in your area, contact your Allied Telesis sales representative or visit our website: www.alliedtelesis.com

Feature Summary

Dial-up Networking (ISDN & analog) Calling Line ID (CLI)

Calling Life 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 IPX/SPX Spoofing PPPoE

Routing Protocols

Static Routes RIP & RIP V2 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)

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	I	4
10/100Mbps F/D Ethernet Switched ports	* 4	-
Port Interface Card Slots	1	-
Internal Mini Accelerator Card Slot**	I	-
Asynchronous RS232 Interface to 115kbp	s l	4
Synchronous Interface to 2Mbps	-	L
ISDN BRI (U & S/T)	-	I.
ISDN PRI	-	I.
TI/EI/G.703 to 2Mbps	-	1

Memory

DRAM: I 6Mb 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

General Kouting					
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 GRĚ					
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-I 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
- **Allied** Telesis

- 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-mld-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-mld-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

- 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

OoS

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 REC 1723 RIPv2

Security

IEEE 802.1x Port Based Network Access Control draft-ylonen-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**

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 TI.231-1997 ANSI T1.403-1995 ANSI TI.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) 1.121 (1988) 1.411 (1988) 1.430 (1988) 1.431 (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 1.430-a Rockwell Bt8370 Fully Integrated TI/EI Framer and Line Interface data sheet Technical Reference of Frame Relay Interface, Ver. I, November 1993, Nippon Telegraph and Telephone Corporation

Frame Relay

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

VolP

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

Hardware upgrade options

Port Interface Cards

AT-AR020 Single configurable E1/T1 interface that supports channelized/unchannelized Primary Rate ISDN/Frame Relay Order Number: 990-001304-00

AT-AR021S (V2)

Single Basic Rate ISDN (S/T) interface Order Number: 990-001103-00

AT-AR023

Single Synchronous port up to 2Mbps to an external CSU/DSU (AT-V.35-DTE-00 or AT-V.21-DTE-00 cable required) Order number: 990-001104-00

AT-AR024

Four Asynchronous RS232 interfaces to 115Kbps Order number: 990-001105-00 AT-AR027 Two VoIP FXS ports Order number: 990-001356-00

Encryption/Compression

AT-AROIII ECMAC Provides hardware-based DES and 3DES* encryption, hardware-based compression Order number: 990-12278-00 (Not RoHS Compliant)

Software upgrade options

AT-AR400SSECPK

(AT-AR410 only as these features are included in the Standard AlliedWare of the AT-AR410S) Provides Firewall, SMTP proxy, HTTP proxy Order number: 980-10027-00

AT-AR400 - ADVL3UPGRD

AR400 Series Advanced Layer 3 Upgrade • IPv6 • BGP-4 • Server Load Balancing Order number: 980-10021-00

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