## AT-AR750S
### Secure VPN Routers

### AT-AR750S
- **2 x 10/100Base-T ports**
- **5 x LAN 10/100Base-T ports**
- **2 x PICs**
- **1 x Asynchronous console / Modem port**

### AT-AR750S-DP
- **2 x 10/100Base-T ports**
- **5 x LAN 10/100Base-T ports**
- **2 x PICs**
- **1 x Asynchronous console / Modem port**
- **Dual hot-swappable AC or DC redundant power supplies**

### Secure Modular Routing Solution
The AT-AR750S has been designed with the needs of small to medium enterprises/businesses (SME/SMB) or branch office businesses in mind. The AT-AR750S offers significant advances in processing performance, Quality of Service (QoS), routing, remote connectivity and security.

The AT-AR750S-DP with dual hot-swappable AC or -48V DC redundant power supplies, meets the needs of Telco customers.

### Extensive VPN Capability
The AR750 family provides extensive IPSec-based VPN capability, allowing the interconnection of offices, remote tele-workers, and other users who require secure access to a corporate network. The AR750 comes complete with integrated hardware acceleration, which maximises encryption throughput and removes the need to purchase a hardware upgrade package. The AR750 is compatible with industry standard IPSec VPN clients.

### Security
In addition to hardware-based encryption, the AR750 family comes with other advanced security features such as traffic filtering with event logging. Traffic filtering uses the source and destination address, port, protocol and TCP packet type to provide control over traffic that passes through the AR750. A Stateful Inspection firewall provides an increased level of security and complements the packet filtering function. HTTP and SMTP proxies on the AR750 provide improved control over web and mail communications.

### Quality of Service (QoS)
The QoS implementation from Allied Telesis enables the AR750 family to dynamically identify high priority voice, video and application traffic, so that appropriate service levels can be maintained in congested networks. Advanced QoS allows voice, video, and data traffic to have QoS applied within individual IPSec tunnels, over GRE, as well as IPv6 to IPv4 tunnels.

### Performance
The AR750 family provides superior performance over other secure VPN routers in this market space. While most secure routers have Stateful Firewalls with NAT, QoS, and IPSec VPN termination capability, very few can perform all three functions and still provide excellent performance with the mixed packed sizes seen in real networks. The AR750 family has been designed to meet real network needs.

### Key Features

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<td>- 2 x 10/100T WAN interfaces</td>
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<td>- 2 Port Interface Cards (PICs)</td>
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<td>- 5 x 10/100T switched LAN ports</td>
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<td>- 1 Asynchronous port / Modem Port</td>
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<td><strong>Security</strong></td>
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<td>- Stateful Inspection Firewall</td>
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<td>- 802.1x</td>
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<td>- AES(^1), DES, 3DES(^1) encryption</td>
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<td>- 5,000 configured IPSec VPN tunnels (250 active)</td>
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<td><strong>Manageability</strong></td>
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<td>- RIPv1 and v2</td>
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<td>- OSPFv1 and v2</td>
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<td>- GRE, L2TP</td>
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<td>- RIPng – optional</td>
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<td><strong>Multicast routing protocols, including:</strong></td>
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<td>- ODMR</td>
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<td>- IGMPv2, IGMP Snooping</td>
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<td>- IPv6 Multicast – optional</td>
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<td><strong>Support for traditional network protocols:</strong></td>
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<tr>
<td>- X.25</td>
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<tr>
<td>- Frame Relay</td>
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\(^1\)AES & 3DES disabled in AR750S-S1
Reliability
The AR750S-DP has dual hot-swappable AC or -48V DC redundant power supplies packaged in the 1RU rack mount chassis, provide the ultimate in space saving, reliability and resiliency. The AR750-DP can operate on just one PSU if required. These features, combined with front-to-back cooling, make the AT-AR750S-DP perfect for the high-density rack environment where space is at a premium.

Comprehensive Management and Configuration
The AR750 family comes with a comprehensive suite of management features and is also compatible with SNMP-based management packages. The SNMP support from Allied Telesis extends to SNMPv3 to provide secure management. An extensive command set is available via the Command Line Interface (CLI), and a browser-based Graphical User Interface (GUI) is also provided to simplify the configuration and management of the routers. The GUI provides access to default set-ups in key management areas and provides access to regional settings.

WAN Load Balancing
The AR750 family’s WAN Load Balancer enables the router to combine bandwidth from multiple WAN connections for increased throughput, redundancy and reliable WAN connectivity. When a router simultaneously connects to multiple WAN networks, the WAN load balancer will distribute the traffic based on any one of a number of selectable balancing algorithms. A typical example would be a router that has two Internet connections each exchanging data to remote sites via different Internet providers. In this case an outage limited to one network will not result in a loss of connectivity to these sites.

Feature Summary
Routing and Multicast
PPP and IP Routing
RIP v1 & v2
OSPF v1 & v2
IPX
IGMPv2
PIM-SM / DM
DVMRP (including draft_ietf_idmr_dvmrp_v3_10)
BGP-4 (optional)

WAN Protocols
X.25
Frame Relay

Security
IP Filtering
Stateful Inspection Firewall
NAT-T
SMTP & HTTP Proxy
802.1x

Authentication: RADIUS, TACACS, MD5, PAP, CHAP, SSH, SSLv1
VPN
L2TP
GRE
IPSec
IKE
ISAKMP
PKI
Encryption: DES, 3DES, AES
MS™ XP VPN client interoperability
Hardware acceleration

Quality of Service (QoS)
Extensive Traffic classifiers of L2 to L5 traffic to allow appropriate queuing of traffic.
IP: IP source/destination address, TOS & DiffServ, RSVP
Ethernet: MAC source/destination, 802.1q
TCP/UDP: Port numbers
VolP: RTP source & destination
Queueing:
- Low latency queuing (LLQ)
- Class-based weighted fair queuing (CBWFQ)
- Deficit Round Robin (DRR)
- Supported tunnel interfaces: PPP, L2TP, IPSec, GRE

Management
Web based GUI
CLI
SNMPv3
IPv6
RIPv2
IPv6 RFC 2460
Neighbour discovery RFC 2461
Stateless address auto configuration RFC 2462
ICMPv6 RFC 2463
Transmission of IPv6 packets RFC 2464
Connection of IPv6 domains via IPv4 clouds RFC 3056
DHCIPv6

Hardware Features
5 x 10/100 Mbps (LAN)
2 x 10/100 Mbps (WAN)
2 x Port Interface Cards (PICs)
1 x Async Console port
DMZ port: Obtained by configuring one of the WAN or LAN ports
Dual hot-swappable AC or DC redundant power supplies (AR750S-DP)

Processor
533MHz
Internal security encryption engine

Memory
64MB Ram
16MB Flash

Power Characteristics
Input Voltage: 100-240 VAC, 50-60 Hz
Max Power Consumption: 40W
Internal Battery Backup (1 year)

Physical Dimensions
AR750S
Dimensions: 1RU rack mount (with included kit), Depth 190 mm, Width 305 mm, Height 44mm
Weight: 1.94 kg
AR750S-DP
Dimensions: 1RU rack mount, Depth 356 mm, Width 440 mm, Height 44 mm
Weight (AT-AR750S-DP and one PSU): 5.38 kg
Weight (AT-AR750S-DP and two PSUs): 6 kg

Environmental
Operating Temp: 0°C to 50°C
Storage Temp: -25°C to 70°C
Operating relative humidity: 5 to 80% non-condensing
Acoustic: ANSI S12.10 General Office @ 40dB
Operating Altitude: Up to 10,000 feet

Approvals & Certifications
UL
TUV
UL60950
EN60950
EN55022 class A
EN55024
FCC class A
VCCI class A
AS/NZS CISPR22 class A
CE

Optional Extras
Port Interface Cards:
AT-AR020 Single configurable E1/T1 interface supporting channelized / unchannelized Primary Rate ISDN / Frame Relay
AT-AR021S Single Basic Rate ISDN (S/T) interface(V3)
AT-AR023 Single Synchronous port up to 2Mbps to an external CSU/DSU (AT-V.35-DTE-00 or AT-X.21-DTE-00 cable required)
AT-AR024 Four Asynchronous RS-232 interfaces to 115Kbps

Country of Origin
China

\(^2\) AR-021S (V3) requires AlliedWare Operating System version 2.9.1-13 or later
Standards and Protocols

AlliedWare Software Release 2.9.2

BGP-4
RFC 1771 Border Gateway Protocol 4
RFC 1966 BGP Route Reflection
RFC 1997 BGP Communities Attribute
RFC 1998 Multi-home Routing
RFC 2385 Protection of BGP Sessions via the TCP MDS Signature Option
RFC 2439 BGP Route Flap Damping
RFC 2858 Multiprotocol Extensions for BGP-4
RFC 2918 Route Refresh Capability for BGP-4
RFC 3065 Autonomous System Confederations for BGP
RFC 3392 Capabilities Advertisement with BGP-4

Encryption
RFC 1321 MD5
RFC 2104 HMAC
RFC 2451 The ESP CBC-Mode Cipher Algorithms
FIPS 46-3 DES
FIPS 46-3 3DES
FIPS 180 SHA-1
FIPS 186 RSA
FIPS 197 AES
FIPS 140-2 Compliant

Ethernet
RFC 894 Ethernet II Encapsulation
IEEE 802.1D MAC Bridges
IEEE 802.1G Remote MAC Bridging
IEEE 802.1Q Virtual LANs
IEEE 802.2 Logical Link Control
IEEE 802.3a VLAN TAG
IEEE 802.3u 100BASE-T
IEEE 802.3x Full Duplex Operation

General Routing
RFC 768 UDP
RFC 791 IP
RFC 792 ICMP
RFC 793 TCP
RFC 826 ARP
RFC 903 Reverse ARP
RFC 925 Multi-LAN ARP
RFC 950 Subnetting, ICMP
RFC 1027 Proxy ARP
RFC 1035 DNS
RFC 1055 SLIP
RFC 1122 Internet Host Requirements
RFC 1144 Van Jacobson's Compression
RFC 1256 ICMP Router Discovery Messages
RFC 1288 Finger
RFC 1332 The PPP Internet Protocol Control Protocol (IPCP)
RFC 1334 PPP Authentication Protocols
RFC 1377 The PPP OSI Network Layer Control Protocol (OSNCLP)
RFC 1518 CIDR
RFC 1519 CIDR
RFC 1542 Bootstrap Protocol
RFC 1552 The PPP Internetworking Packet Exchange Control Protocol (IPXCP)
RFC 1570 PPP LCP Extensions
RFC 1582 RIP on Demand Circuits
RFC 1598 PPP in X25
RFC 1618 PPP over ISDN
RFC 1661 The Point-to-Point Protocol (PPP)
RFC 1662 PPP in HDLC-like Framing
RFC 1701 GRE
RFC 1702 GRE over IPv4
RFC 1812 Router Requirements
RFC 1877 PPP Internet Protocol Control Protocol Extensions for Name Server Addresses
RFC 1918 IP Addressing
RFC 1962 The PPP Compression Control Protocol (CCP)
RFC 1968 The PPP Encryption Control Protocol (ECP)
RFC 1974 PPP Static LCP 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 2131 DHCP
RFC 2125 The PPP Bandwidth Allocation Protocol (BAP) / The PPP Bandwidth Allocation Control Protocol (BACP)
RFC 2390 Inverse Address Resolution Protocol
RFC 2516 A Method for Transmitting PPP Over Ethernet (PPPoE)
RFC 2661 L2TP
RFC 2822 Internet Message Format
RFC 2878 PPP Bridging Control Protocol (BCP)
RFC 3046 DHCP Relay Agent Information Option
RFC 3232 Assigned Numbers
RFC 3993 Subscriber-ID Suboption for DHCP Relay Agent Option
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/ISO 10589, ISO 10589 Technical Corrigendums 1, 2, 3, ISO Intermediate System-to-Intermediate System
ISO 8743, relevant parts of ISO 8348(X.213), ISO 8343/646, ISO 8648, ISO 8648, ISO TR 9557 Open System Interconnection
ISO 9542 End System to Intermediate System Protocol Encapsulation of IPsec Packets
http://www.iana.org/assignments/bootp-dhcp-parameters BootP and DHCP parameters

General Routing and Firewall
RFC 3022 Traditional NAT
draft-ietf-ipsec-nat-t-ike-08.txt Negotiation of NAT-Traversal in the IKE
draft-ietf-ipsec-udt-encaps-08.txt UDP Encapsulation of IPsec Packets

IP Multicasting
RFC 1075 DVMRP
RFC 1112 Host Extensions
RFC 2236 IOMIPv2
RFC 2362 PIM-DM
RFC 2715 Interoperability Rules for Multicast Routing Protocols
RFC 2973 PIM-DM
draft-ietf-idmr-dmmrp-v3-9 DVMRP

IPsec
RFC 1828 IP Authentication using Keyed MDS
RFC 1829 IPsec algorithm
RFC 2395 IPsec Compression - L2S
RFC 2401 Security Architecture for IP
RFC 2402 AH - IP Authentication Header
RFC 2403 IPsec Authentication - MDS
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 OKAKEY
RFC 3173 IPComp - IPsec compression

IPv6
RFC 1981 Path MTU Discovery for IPv6
RFC 2080 RSVP for IPv6
RFC 2365 Administratively Scoped IPv6 Multicast
RFC 2375 IPv6 Multicast Address Assignments
RFC 2460 IPv6
RFC 2461 Neighbor Discovery for IPv6
RFC 2462 IPv6 Stateless Address Autoconfiguration
RFC 2463 ICMPv6
RFC 2464 Transmission of IPv6 Packets over Ethernet Networks
RFC 2465 Allocation Guidelines for IPv6 Multicast Addresses
Management Information Base for IP Version 6: Textual Conventions and General Group
RFC 2466 Management Information Base for IPv6 Version 6: ICMPv6 Group
RFC 2472 IPv6 over PPP
RFC 2526 Reserved IPv6 Subnet Anycast Addresses
RFC 2529 Transmission of IPv6 over IPv4 Domains without Explicit Tunnels
RFC 2710 Multicast Listener Discovery (MLD) for IPv6
RFC 2711 IPv6 Router Alert Option
RFC 2851 Textual Conventions for Internet Network Addresses
RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers
RFC 3056 Connection of IPv6 Domains via IPv4 Clouds
RFC 3307 Allocation Guidelines for IPv6 Multicast Addresses
RFC 3315 DHCv6
RFC 3484 Default Address Selection for IPv6
RFC 3513 IPv6 Addressing Architecture
RFC 3587 IPv6 Global Unicast Address Format
RFC 3596 DNS Extensions to support IPv6
RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6

Management
RFC 1155 MIB
RFC 1157 SNMP
RFC 1212 Concise MIB definitions
RFC 1213 MIB-II
RFC 1493 Bridge MIB
RFC 1643 Ethernet MIB
RFC 1657 Definitions of Managed Objects for BGP-4 using SMv2
RFC 2011 SMv2-2 MIB for IP using SMv2
RFC 2012 SMv2-2 MIB for TCP using SMv2
RFC 2096 IP Forwarding Table MIB
RFC 2576 Coexistence between V1, V2, and V3 of the Internet-standard Network Management Framework
RFC 2578 Structure of Management Information Version 2
Port Interface Card Options

**AT-AR020**
Single configurable E1/T1 interface supporting channelized / unchannelized Primary Rate ISDN / Frame Relay

**AT-AR021S (V3)**
(AT-AR021S V1 card is not supported on the AT-AR750S-DP) Single Basic Rate ISDN S/T interface

**AT-AR023**
Single Synchronous port up to 2Mbps to an external CSU/DSU (AT-V.35-DTE-00 or AT-X.21-DTE-00 cable required)

**AT-AR024**
Four Asynchronous RS-232 interfaces to 115Kbps

Software Upgrade Options

**AT-AR700 - ADVL3UPGRD**
AR700 series advanced Layer 3 upgrade:
- IPv6
- BGP-4
- Server Load Balancing

**AT-AES/3DES-00**
AES/3DES encryption activation key

About Allied Telesis

Allied Telesis is part of the Allied Telesis Group. Founded in 1987, the company is a global provider of secure Ethernet/IP access solutions and an industry leader in the deployment of IP Triple Play networks over copper and fiber access infrastructure. Our POTS-to-10G iMAP integrated Multiservice Access Platform and iMG intelligent Multiservice Gateways, in conjunction with advanced switching, routing and WDM-based transport solutions, enable public and private network operators and service providers of all sizes to deploy scalable, carrier-grade networks for the cost-effective delivery of packet-based voice, video and data services.

Service and Support

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

RoHS

Allied Telesis RoHS-compliant product conforms to the European Union Restriction of the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic equipment. Allied Telesis ensures RoHS conformance by requiring supplier Declarations of Conformity, monitoring incoming materials, and maintaining manufacturing process controls.

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