

UTM Firewalls

AR3050S and AR4050S

Allied Telesis Unified Threat Management (UTM) Firewalls are the ideal integrated security platform for modern businesses. Powerful firewall and threat protection is combined with routing and switching, to provide an innovative high performance solution.









The AR3050S and AR4050S are the ideal choice for high speed Enterprise gateway applications. The UTM Firewalls feature an integrated security platform to provide up-to-the-minute threat protection, and advanced networking capabilities, meeting the needs of Enterprise networks.

High performance

High performance is guaranteed by harnessing the power of multi-core processors and application acceleration engines, dramatically increasing throughput and enabling sustained low latency traffic inspection.

"Best of breed" security

Allied Telesis integrated security platforms utilize "best of breed" security providers, for the ultimate in up-to-the-minute protection — from all known threats. Powerful features like Malware ptotection, Web control, URL Filtering and Antivirus ensure the safety of business data.

Advanced feature licenses

Flexible subscription licensing options make it easy to choose the right combination of security features to best meet your business needs. The Firewall license includes App Control, Web Control and URL Filtering. The Advanced Threat Protection (ATP) license includes IP Reputation, stream-based Malware Protection and proxy-based Antivirus.* All other features are included in the base feature set.

Deep Packet Inspection (DPI) Firewall

The Allied Telesis UTM Firewalls have a Deep Packet Inspection (DPI) engine that provides real-time, Layer 7 classification of network traffic. Rather than being limited to filtering packets based on protocols and ports, the firewall can determine the application associated with the packet. This allows Enterprises to differentiate business-critical from non-critical applications, and enforce security and acceptable use policies in ways that make sense for the business.

Intrusion Detection and Prevention Systems (IDS/IPS)

IDS/IPS is an intrusion detection and prevention system that protects your network from malicious traffic. IDS/IPS monitors inbound and outbound traffic, and identifies threats which may not be detected by the firewall alone.

Secure Remote Virtual Private Networks (VPN)

Allied Telesis UTM Firewalls support IPSec site-to-site VPN connectivity to connect one or more branch offices to a central office, providing employees company wide with consistent access to the corporate network.

Remote workers can utilize an SSL VPN connection to encrypt their business data over the Internet, allowing them to utilize all their business resources when working from home, travelling, or otherwise away from the company premises.

Easy to manage

The firewalls run the advanced AlliedWare PlusTM fully featured operating system, with an industry standard CLI. The Graphical User Interface (GUI) provides a dashboard for monitoring, showing traffic throughput, security status, and application use at a glance. Configuration of security zones, networks and hosts, and rules to limit and manage traffic, as well as management of advanced threat protection features, provides a consistent approach to policy management.

Full support for Allied Telesis Management Framework (AMF) allows Allied Telesis firewalls to integrate with Allied Telesis switching products to from a network able to be managed as a single virtual entity. A full suite of automated tools ensures that the firewall configuration is backed up, and able to be recovered with no user intervention, maximizing the availability of online services.

| | AT-AR3050S | AT-AR4050S |
|-----------------------------------|------------|------------|
| Performance | | |
| Firewall throughput (Raw) | 750 Mbps | 1,900 Mbps |
| Firewall throughput (App Control) | 700 Mbps | 1,800 Mbps |
| Concurrent sessions | 100,000 | 300,000 |
| New sessions per second | 3,600 | 12,000 |
| IPS throughput | 220 Mbps | 750 Mbps |
| IP Reputation throughput | 350 Mbps | 1,000 Mbps |
| Malware protection throughput | 300 Mbps | 1,300 Mbps |
| VPN throughput | 400 Mbps | 1,000 Mbps |

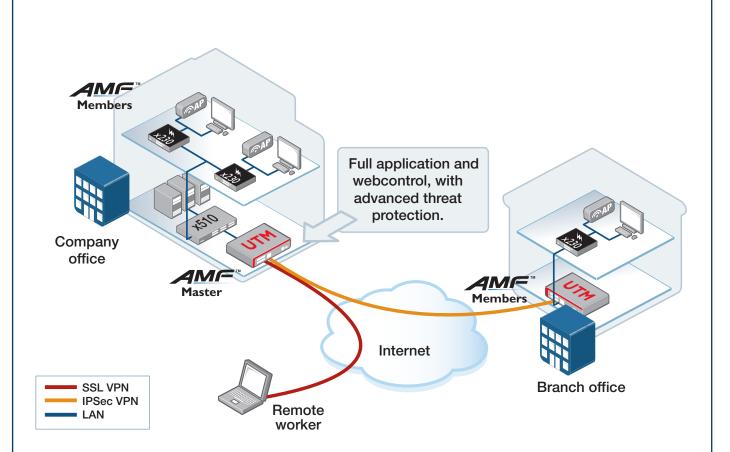
^{*} Antivirus is only available on the AR4050S

alliedtelesis.com NETWORK SMARTER

| DPI FIREWALL ENGINE | | |
|--|--|--|
| Deep Packet Inspection engine | The high-performance inspection engine performs stream-based bi-directional traffic analysis, identifying individual applications, while blocking intrusion attempts and malware. | |
| Bi-directional inspection | Protects your network by scanning for threats in inbound traffic, while also protecting your business reputation by scanning for threats in outbound traffic. | |
| Single-pass inspection | Multiple threat detection and protection capabilities are integrated within a purpose-built solution that provides single-pass low-latency inspection and protection for all network traffic | |
| APPLICATION AND WEB CONTROL | | |
| Application control | The increased network visibility provided by the application-aware firewall allows fine-grained application, content and user control. The Procera™ DPI engine uses a regularly updated database of application signatures, to ensure business security and productivity. | |
| Application bandwidth management | Manage application bandwidth to support business requirements, while limiting non-essential applications. | |
| Web control | Digital Arts [™] web categorisation enables easy control of web content by simply selecting which of the 100 content categories to allow or deny globally, or per user or group. | |
| Web control caching | URL categories are cached locally on the UTM Firewall so that the response time for subsequent access to frequently visited sites is not delayed | |
| URL filtering | Enables access to particular websites to be allowed (whitelist) or blocked (blacklist) with user-defined lists. A subscription service can also be employed, utilizing a frequently update blacklist from Kaspersky. | |
| FIREWALL AND NETWORKING | | |
| VRF-Lite | Virtual Routing and Forwarding (VRF-Lite) allows multiple routing tables. As the routing instances are independant, the same or overlapping IPv4 addresses can be used. | |
| Flexible deployment options | The Allied Telesis UTM Firewalls can be deployed in traditional NAT, Layer 2 Bridge, Wire Mode and Network Tap modes. | |
| 3G/4G/LTE USB modem | A 3G/4G/LTE USB modem offers an additional secure data connection for critical services that can automatically switch to a mobile network whenever a primary data connection becomes unavailable. | |
| RESILIENCY | | |
| High availability bypass ports | Bypass ports allow a backup link to be formed to another device to act as a passive backup In the event of a power failure, the WAN traffic is immediately transmitted to the backup device for an automatic failover of the WAN connection. | |
| VRRP triggers for bypass port | The Allied Telesis UTM Firewalls support event-based triggers to automatically change VRRP mastership if a bypass port is activated. This simplifies WAN failover and reduces disruption | |
| failover | | |
| UNIFIED THREAT MANAGEMENT | mastership if a bypass port is activated. This simplifies WAN failover and reduces disruption to other network devices. | |
| | | |
| UNIFIED THREAT MANAGEMENT | to other network devices. All inbound, outbound and intra-zone traffic is scanned by the DPI engine for viruses, Trojans, | |
| UNIFIED THREAT MANAGEMENT Malware protection | to other network devices. All inbound, outbound and intra-zone traffic is scanned by the DPI engine for viruses, Trojans, and other malware to protect business information. Protection against Denial of Service (DoS) attacks, which are designed to consume resources | |
| UNIFIED THREAT MANAGEMENT Malware protection DoS attack protection | All inbound, outbound and intra-zone traffic is scanned by the DPI engine for viruses, Trojans, and other malware to protect business information. Protection against Denial of Service (DoS) attacks, which are designed to consume resources and therefore deny users network and application access Security is kept up-to-the-minute without requiring user intervention or network disruption. UTM Firewalls with active security subscriptions automatically receive new threat signature | |
| UNIFIED THREAT MANAGEMENT Malware protection DoS attack protection Automatic security updates | All inbound, outbound and intra-zone traffic is scanned by the DPI engine for viruses, Trojans, and other malware to protect business information. Protection against Denial of Service (DoS) attacks, which are designed to consume resources and therefore deny users network and application access Security is kept up-to-the-minute without requiring user intervention or network disruption. UTM Firewalls with active security subscriptions automatically receive new threat signature and database updates, which have been tested by Allied Telesis. Internal security is increased with the network segmented into multiple security zones, with | |
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| UNIFIED THREAT MANAGEMENT Malware protection DoS attack protection Automatic security updates Zone-based protection Bot activity detection | All inbound, outbound and intra-zone traffic is scanned by the DPI engine for viruses, Trojans, and other malware to protect business information. Protection against Denial of Service (DoS) attacks, which are designed to consume resources and therefore deny users network and application access Security is kept up-to-the-minute without requiring user intervention or network disruption. UTM Firewalls with active security subscriptions automatically receive new threat signature and database updates, which have been tested by Allied Telesis. Internal security is increased with the network segmented into multiple security zones, with boundaries that block the propagation of threats. Kaspersky TM malware protection identifies and blocks command and control traffic originating from bots on the local network to IPs and domains that are identified as propagating malware. | |
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| UNIFIED THREAT MANAGEMENT Malware protection DoS attack protection Automatic security updates Zone-based protection Bot activity detection Protocol anomaly detection VIRTUAL PRIVATE NETWORKING IPSec VPN for site-to-site | All inbound, outbound and intra-zone traffic is scanned by the DPI engine for viruses, Trojans, and other malware to protect business information. Protection against Denial of Service (DoS) attacks, which are designed to consume resources and therefore deny users network and application access Security is kept up-to-the-minute without requiring user intervention or network disruption. UTM Firewalls with active security subscriptions automatically receive new threat signature and database updates, which have been tested by Allied Telesis. Internal security is increased with the network segmented into multiple security zones, with boundaries that block the propagation of threats. Kaspersky TM malware protection identifies and blocks command and control traffic originating from bots on the local network to IPs and domains that are identified as propagating malware. Identifies and blocks attacks that abuse protocols in an attempt to circumvent the IDS/IPS. High-performance IPSec VPN allows the Allied Telesis UTM Firewalls to act as a VPN | |
| UNIFIED THREAT MANAGEMENT Malware protection DoS attack protection Automatic security updates Zone-based protection Bot activity detection Protocol anomaly detection VIRTUAL PRIVATE NETWORKING IPSec VPN for site-to-site connectivity SSL/TLS VPN for secure | All inbound, outbound and intra-zone traffic is scanned by the DPI engine for viruses, Trojans, and other malware to protect business information. Protection against Denial of Service (DoS) attacks, which are designed to consume resources and therefore deny users network and application access Security is kept up-to-the-minute without requiring user intervention or network disruption. UTM Firewalls with active security subscriptions automatically receive new threat signature and database updates, which have been tested by Allied Telesis. Internal security is increased with the network segmented into multiple security zones, with boundaries that block the propagation of threats. Kaspersky TM malware protection identifies and blocks command and control traffic originating from bots on the local network to IPs and domains that are identified as propagating malware. Identifies and blocks attacks that abuse protocols in an attempt to circumvent the IDS/IPS. High-performance IPSec VPN allows the Allied Telesis UTM Firewalls to act as a VPN concentrator for other large sites, branch offices or home offices. Users simply utilize the OpenVPN® client on their computer, tablet or other mobile device for | |

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Key Solution



Integrated protection and secure remote access

Allied Telesis UTM Firewalls are the ideal integrated security platform for modern businesses. The powerful combination of next-generation firewall and threat protection, along with secure remote access, and routing and switching, provides a single platform able to connect and protect corporate data.

This solution shows a UTM Firewall providing site-to-site IPSec VPN connectivity between corporate offices, while also allowing secure SSL VPN access for remote workers, so they enjoy full access to digital company resources when away from the office.

As well as securing remote connectivity, the firewall will simultaneously ensure the security of inbound and outbound business data, with advanced threat protection features like IP reputation, Malware protection and Antivirus. Full application control allows this organization to control the applications their people use, and how they use them, so security and acceptable use policies can be enforced in ways that make sense for the business.

The powerful combination of features make Allied Telesis UTM Firewalls the one-stop integrated security platform for protecting today's online business activity.

Automated network management

In addition to protecting and connecting modern networks, the firewalls are fully supported by the Allied Telesis Management Framework (AMF).

AMF is a sophisticated suite of management tools that automate and simplify many day-to-day network administration tasks. Powerful features like centralized management, auto-backup, auto-upgrade, auto-provisioning and auto-recovery ensure streamlined networking. Growing the network can be accomplished with plug-and-play simplicity, and network node recovery is fully zero-touch

The AR4050S can operate as the AMF network master, storing firmware and configuration backups for up to 20 other network nodes.

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Features

Firewall

- Deep Packet Inspection (DPI) application aware firewall (Procera) for granular control of apps and IM (chat, file transfer, video)
- ▶ Application Layer Gateway (ALG) for FTP, SIP and H.323
- ▶ Application layer proxies for SMTP and HTTP
- ▶ Bandwidth limiting control for applications and IM/P2P
- ► Firewall session limiting per user
- Bridging between LAN and WAN interfaces
- Data leakage prevention
- ▶ Bidirectional single-pass inspection engine
- Maximum and guaranteed bandwidth control
- ▶ Multi zone firewall with stateful inspection
- Static NAT (port forwarding)
- Masquerading (outbound NAT)
- Proxy-based web control by content categorisation (Digital Arts)
- ▶ Custom web control categories, match criteria and keyword blocking per entity
- Stream-based URL Filtering with user defined lists, or using a subscription service (Kaspersky)
- ► Security for IPv6 traffic

Networking

- ▶ Routing mode / bridging mode / mixed mode
- ▶ Static unicast and multicast routing for IPv4 and IPv6
- ▶ Dynamic routing (RIP, OSPF and BGP) for IPv4 and IPv6
- ► Flow-based Equal Cost Multi Path (ECMP) routing
- ▶ Dynamic multicasting support by IGMP and PIM
- ▶ Route maps and prefix redistribution (OSPF, BGP, RIP)
- ▶ Virtual Routing and Forwarding (VRF-Lite)
- ▶ Traffic control for bandwidth shaping and congestion avoidance
- ▶ PPPoE client with PADT support
- ▶ DHCP client, relay and server for IPv4 and IPv6
- ▶ DNS client and relay for IPv4 and IPv6
- ▶ IPv4 and IPv6 dual stack
- ▶ Device management over IPv6 networks with SNMPv6, Telnetv6 and SSHv6
- ▶ Logging to IPv6 hosts with Syslog v6

Management

- Allied Telesis Management Framework (AMF) enables powerful centralized management and zero-touch device installation and recovery
- ▶ Try AMF for free with the built-in AMF starter license (AR4050S only)
- ▶ Web-based GUI for device configuration and easy monitoring
- ▶ Industry-standard CLI with context-sensitive help
- ▶ Role-based administration with multiple CLI security levels
- ▶ Built-in text editor and powerful CLI scripting engine
- ▶ Comprehensive SNMPv2c/v3 support for standards-based device management
- Event-based triggers allow user-defined scripts to be executed upon selected system events
- Comprehensive logging to local memory and syslog
- $\,\blacktriangleright\,$ Console management port on the front panel for ease of access
- USB interface and SD/SDHC memory card socket allow software release files, configurations and other files to be stored for backup and distribution to other devices

Resiliency

- ▶ High availability bypass ports
- ► Policy-based storm protection
- ▶ Spanning Tree (STP, RSTP, MSTP) with root guard
- ▶ Virtual Router Redundancy Protocol (VRRPv2/v3)
- ▶ VRRP triggers bypass port failover for v4 & v6 traffic

Diagnostic Tools

Active Fiber Monitoring detects tampering on optical links

- ▶ Automatic link flap detection and port shutdown
- ► Optical Digital Diagnostic Monitoring (DDM)
- ▶ Ping polling for IPv4 and IPv6
- Port mirroring
- ► TraceRoute for IPv4 and IPv6

Authentication

- ▶ RADIUS authentication and accounting
- ► TACACS+ Authentication, Accounting and Authorization (AAA)
- ▶ Local or server-based RADIUS user database
- ▶ RADIUS group selection per VLAN or port
- Strong password security and encryption

Unified Threat Management (UTM)

- ► Proxy-based anti-virus scanning (AR4050S only)
- ▶ No file size limitations
- ► Auto-update of UTM signature files
- ▶ Bot activity detection (using Kaspersky malware protection)
- ▶ Intrusion Detection and Prevention System (IDS/IPS) (no license required)
- ▶ DoS and DDoS attack detection and protection
- ► IP reputation (Emerging Threats)
- ▶ Stream-based Malware protection (Kaspersky) from over 20,000 attacks
- ► Protocol anomaly detection and protection
- ▶ Zone-based UTM

VPN Tunneling

- ▶ Diffie-Hellman key exchange (D-H groups 5, 14, 16)
- ► Secure encryption algorithms: AES and 3DES
- ▶ Secure authentication: SHA-1 and SHA-256
- ► IKEv1 and IKEv2 key management
- ► IPsec Dead Peer Detection (DPD)
- ▶ IPsec NAT traversal
- ► IPsec VPN for site-to-site connectivity
- ▶ Dynamic routing through VPN tunnels (RIP, OSPF, BGP)
- Redundant VPN gateway
- ► SSL/TLS VPN for secure remote access using OpenVPN

Security Providers

Allied Telesis UTM Firewalls utilize "best of breed" threat signatures and databases from the security industry's leading providers.

Application Control



PROCERA

Web Control

URL Filtering

POWERED BY KASPERSKY

POWERED BY

Malware Protection

POWERED BY
KASPERSKY

KASPERSKY

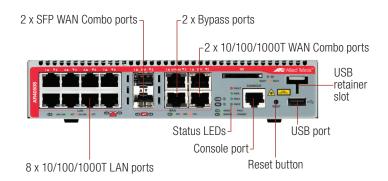
Antivirus

EMERGING THREATS

IP Reputation

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AR4050S





Specifications

| | AR3050S | AR4050S | |
|--------------------------------|---|--------------------------------------|--|
| Processor and memory | | | |
| Security processor | 800MHz dual-core | 1.5GHz quad-core | |
| Memory (RAM) | 1GB | 2GB | |
| Memory (Flash) | 4GB | 4GB | |
| Security features | | | |
| Firewall | Stateful deep packet inspection a | pplication aware multi-zone firewall | |
| Application proxies | FTP, TFTP, SIP | | |
| Threat protection | DoS attacks, fragmented & malformed packets, blended threats & more | | |
| Security subscriptions | Next-Gen Firewall, Advanced Threat Protection | | |
| Tunneling & encryption | | | |
| IPsec site-to-site VPN tunnels | 50 | 200 | |
| SSL VPN users | 100 | 200 | |
| Encrypted VPN | IPsec, SHA-1, SHA-256, IKEv2, SSL/TLS VPN | | |
| Encryption | 3DES, AES-128, AES-192, AES-256 | | |
| Key exchange | Diffie-Hellman groups 5, 14, 16 | | |
| Dynamic routed VPN | RIP, OSPF, BGP, RIPng, OSPFv3, BGP4+ | | |
| Point to point | Static PPP, L2TPv2 virtual tunnels, L2TPv3 Ethernet pseudo-wires | | |
| Encapsulation | GRE for IPv4 and IPv6 | | |
| Management & authentication | | | |
| Logging & notifications | Syslog & Syslog v6, SNMPv2 & v3 | | |
| User interfaces | Web-based GUI, scriptable industry-standard CLI | | |
| Secure management | SSHv1/v2, strong passwords | | |
| Management | Allied Telesis Management Framework™ (AMF) | | |
| User authentication | RADIUS, TACACS+, internal user database, web authentication | | |
| Command authorization | TACACS+ AAA (Authentication, Accounting and Authorization) | | |

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| | AR3050S AR4050S | |
|-----------------------------------|--|--|
| Networking | | |
| Routing (IPv4) | Static, Dynamic (BGP4, OSPF, RIPv1/v2), source-based routing, policy-based routing, VRF-Lite | |
| Routing (IPv6) | Static, Dynamic (BGP4+, OSPFv3, RIPng), policy-based routing | |
| Multicasting | IGMPv1/v2/v3, PIM-SM, PIM-DM, PIM-SSM, PIMv6 | |
| Resiliency | STP, RSTP, MSTP | |
| High availability | VRRP, VRRPv3, hardware controlled bypass ports | |
| Traffic control | 8 priority queues, DiffServ, HTB scheduling, RED curves | |
| IP address management | Static v4/v6, DHCP v4/v6 (server, relay, client), PPPoE | |
| NAT | Static, IPsec traversal, Dynamic NAPT | |
| Link aggregation | 802.3ad static and dynamic (LACP) | |
| VLANs | 802.1Q tagging | |
| Reliability features | | |
| | Modular AlliedWare Plus operating system Full environmental monitoring of PSU, fan, temperature and internal voltages. SNMP traps alert network managers in case of any failure Variable fan speed control | |
| Hardware characteristics | | |
| Input power | 90 to 260V AC (auto-ranging), 47 to 63Hz | |
| Max power consumption | 23W 27W | |
| LAN ports | 8 x 10/100/1000T RJ-45 | |
| WAN ports | 2 x 1000X SFP / 2 x 10/100/1000T RJ-45 combo | |
| High Availability bypass ports | 2 x 10/100/1000T RJ-45 | |
| Other ports | 1 x USB, 1 x RJ-45 console, 1 x SDHC slot | |
| Product dimensions (H x W x D) | 42.5mm (1.67 in) x 210mm (8.26 in) x 220mm (8.66 in) | |
| Product weight | 1.7 kg unpackaged, 2.6 kg packaged | |
| Typical / Max noise | 28.4 dBA / 35.1 dBA | |
| Environmental specifications | | |
| Operating temperature range | 0°C to 50°C (32°F to 122°F). Derated by 1°C per 305 meters (1,000 ft) | |
| Storage temperature range | -25°C to 70°C (-13°F to 158°F) | |
| Operating relative humidity range | 5% to 80% non-condensing | |
| Storage relative humidity range | 5% to 95% non-condensing | |
| Operating altitude | 2,000 meters maximum (6,600 ft) | |
| Regulations and compliances | | |
| EMC | EN55022 class A, FCC class A, VCCI class A | |
| Immunity | EN55024, EN61000-3-levels 2 (Harmonics), and 3 (Flicker) | |
| Safety Standards | UL60950-1, CAN/CSA-C22.2 No. 60950-1-03, EN60950-1, EN60825-1, AS/NZS 60950.1 | |
| Safety Certifications | UL, cUL, TuV | |
| RoHS Compliance | | |
| | EU RoHS6 compliant, China RoHS compliant | |
| Country of origin | | |
| | China | |
| | | |

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Ordering information

AT-AR3050S-xx

2 x GE WAN and 8 x 10/100/1000 LAN

AT-AR4050S-xx

2 x GE WAN and 8 x 10/100/1000 LAN



AT-RKMT-J15

Rack mount kit to install two devices side by side in a 19-inch equipment rack



AT-RKMT-J14

Rack mount kit to install one device in a 19-inch equipment rack

Where xx = 10 for US power cord

20 for no power cord

30 for UK power cord

40 for Australian power cord

50 for European power cord

51 for encryption not enabled

Security Subscription Licenses

| LICENSE NAME | INCLUDES | 1 YR SUBSCRIPTION | 3 YR SUBSCRIPTION | 5 YR SUBSCRIPTION |
|-------------------------------|---|------------------------|------------------------|------------------------|
| AR3050S | | | | |
| Advanced Firewall | Application Control Web Control URL Filtering | AT-FL-AR3-NGFW1- YR | AT-FL-AR3-NGFW- 3YR | AT-FL-AR3-NGFW-5YR |
| Advanced Threat Protection | IP Reputation Malware Protection | AT-FL-AR3-ATP-1YR | AT-FL-AR3-ATP-3YR | AT-FL-AR3-ATP-5YR |
| AR4050S | | | | |
| Advanced Firewall | Application Control Web Control URL Filtering | AT-FL-AR4-NGFW- 1YR | AT-FL-AR4-NGFW- 3YR | AT-FL-AR4-NGFW- 5YR |
| Advanced Threat Protection | IP Reputation, Malware Protection Anti-virus | AT-FL-AR4-ATP-1YR | AT-FL-AR4-ATP-3YR | AT-FL-AR4-ATP-5YR |

Feature Licenses

| PRODUCT | NAME | DESCRIPTION |
|---------|--------------------|---|
| AR4050S | AT-FL-AR4-AM20-1YR | AMF Master license for up to 20 nodes for 1 year |
| AR4050S | AT-FL-AR4-AM20-5YR | AMF Master license for up to 20 nodes for 5 years |

1000Mbps SFP Modules

AT-SPTX

1000T 100 m copper

AT-SPSX

1000SX GbE multi-mode 850 nm fiber up to 550 m

AT-SPSX/I

1000SX GbE multi-mode 850 nm fiber up to 550 m industrial temperature

AT-SPEX

1000X GbE multi-mode 1310 nm fiber up to 2 km

AT-SPLX10

1000LX GbE single-mode 1310 nm fiber up to 10 km

AT-SPLX10/I

1000LX GbE single-mode 1310 nm fiber up to 10 km industrial temperature

AT-SPBD10-13

1000LX GbE Bi-Di (1310 nm Tx, 1490 nm Rx) fiber up to 10 km $\,$

AT-SPBD10-14

1000LX GbE Bi-Di (1490 nm Tx, 1310 nm Rx) fiber up to 10 km

AT-SPLX40

1000LX GbE single-mode 1310 nm fiber up to 40 km $\,$

AT-SPZX80

1000ZX GbE single-mode 1550 nm fiber up to 80 km $\,$

3G/4G USB Modems

For a list of supported USB modems visit alliedtelesis.com



NETWORK SMARTER

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