



K7 UTM

Unified Threat Management

UTM Appliances for SOHO,
Small Business, Medium Enterprise,
and Enterprise Networks

INTRODUCTION

K7 Security offers a portfolio of integrated Unified Threat Management (UTM) solutions designed specifically to enhance network security and provide insight into organisational risk, protecting organisations from today's most advanced cyber-related threats.

The K7 range of UTM hardware appliances brings together the K7s Security's award-winning anti-malware technology, tightly integrated into a cost-effective, proven gateway solution for Small Office/Home Office (SOHO), Small Business, Medium Enterprise, and Enterprise networks.

The K7 UTM Gateway provides robust access control, user authentication, secure site-to-site communications, and network and application-level attack protection in a hardened, security-specific platform. Designed to protect the network from malware, SPAM, Phishing attacks, malicious exploits and advanced persistent threats (APT's), the K7 range of UTM appliances can be quickly deployed and easily managed in single or multi-site deployments.



All of the K7 UTM Appliances include the following core features:

K7 UTM – Security Features

The K7 UTM Gateway appliances are high performance integrated platforms that include the following core security features and functionality;

Firewall and IDS/IPS

K7's UTM product line includes a secure, multi-zone, Stateful Packet Inspection (SPI) firewall for access control, authentication and network-level attack prevention with integrated IDS/IPS. Network layer attack and denial of service protection include IP spoofing, brute force, and flooding attack mitigation, in addition to gateway-level malware protection using K7 Security's award-winning anti-malware engine.

K7 UTM – Networking Features

Offering a wealth of networking features and functionality, the K7 UTM solutions integrate seamlessly into existing network architectures with support for Next Generation features including IPv6, multi-LAN/WAN connections, SSL/IPSEC VPN with 3DES, AES, and Blowfish cipher support.

Enterprise-class features such as quality-based link failover, inbound and outbound load balancing, and QOS bandwidth management are standard across the K7 UTM product line

For mission-critical deployments, K7 UTM's High Availability supports Active-Passive mode in case of UTM device or interface failure with auto-configuration synchronisation with a secondary backup UTM device.

Administrative Alerts, Logging, and Reporting

To assist Administrators in diagnosing potential network issues, the K7 UTM appliances integrate a real-time network sniffer and net flow analyser, more than 35+ live logs and over 40 different report formats to help pinpoint faults and supplement compliance reporting efforts.

K7 UTM - Anti-Malware Features

Malware is one of the most time consuming and resource intensive threats for an organisation to mitigate, due to its diversity, complexity, and persistence. Malicious attackers and threat actors can be stopped at the network edge by deploying the K7 UTM solution, hardening a network's defences and preventing hackers from gaining a foothold within the network.

K7 Security UTM solutions use the following features to detect and mitigate the threat of malware and other malicious code from penetrating the enterprise.

K7 Anti-Malware Scanning Engine

K7's scanning technology identifies and blocks both known and unknown malware objects before they can execute by using a combination of automated and custom signatures, in addition to heuristic analysis. Designed to detect all variants of a specific malware family by identifying common traits, K7's scan engine can quickly identify malware infections before a network-wide outbreak occurs.

The integrated K7 scanning engine also has the ability to block inbound spyware, adware and related malware in addition to blocking already existing spyware and adware infected systems from "phoning-home" or transferring sensitive private data.

Web Security

K7 UTM appliances can proactively identify malicious websites using heuristic URL analysis and cloud-based website reputation services, protecting against malicious website code long before a payload can be deployed to a vulnerable endpoint.

Content Filtering

Web Categorisation helps businesses define the types of websites and content their users can access while using company-owned devices, and limits access to websites that impact productivity, such as social media websites during business hours, or block access to unwanted downloads found on hacking websites, gaming, chat services, or other potentially inappropriate content.

Email Security

Incoming and outgoing email is checked against the K7 white and blacklists before being sent to the K7 scan engine to identify new or existing threats. URLs and attachments contained within the email are scanned and -if found clean - delivered to the user's inbox. Objects can be quarantined or deleted based on a pre-configured policy protecting the enterprise network from phishing threats before they can be successfully executed.

AAA Framework

K7 UTM Series include triple-A framework, a critical process that is important for effective network management and security. Authentication, Authorisation, and Accounting (AAA) is a framework that intelligently controls access to computer resources, enforcing policies, auditing usage, and providing the information necessary to bill for or track services.



K7 UTM PRODUCT LINE

The K7 UTM product line includes form factors to meet the requirements of SOHO, small businesses, medium businesses, and enterprise networks supporting tens, hundreds, or thousands of concurrent users.

K7 A-Series UTM

Small Office/Home Office (SOHO) Solutions (15-75 Users)

Designed for small office / branch office, hotels, restaurants, and retail locations.

Throughput Specification	K7 A-Series			
	15 Concurrent Users	30 Concurrent Users	50 Concurrent Users	75 Concurrent Users
Model Name	K7A415	K7A430	K7A450	K7A475
Ports	4	4	4	4
Concurrent Session	3250000	3250000	6000000	6050000
New Sessions/sec	20000	30000	35000	38000
Firewall Throughput	3.1Gbps	3.5 Gbps	4 Gbps	4 Gbps
UTM Throughput	390 Mbps	480 Mbps	1 Gbps	1 Gbps
IPS Throughput	580 Mbps	970 Mbps	1.2 Gbps	1.2 Gbps
VPN Throughput	250 Mbps	380 Mbps	500 Mbps	500 Mbps
VPN	2 Tunnels			
User Management AAA	Yes			

K7 S-Series UTM

Small Business Solutions (100-250 Users)

UTM appliances suitable for Multi LAN & Multi WAN Segments.

Throughput Specification	K7 S-Series							
	100 Concurrent Users			150 Concurrent Users			250 Concurrent Users	
Model Name	K7S4100	K7S6100	K7S8100	K7S4150	K7S6150	K7S8150	K7S6250	K7S8250
Ports	4	6	8	4	6	8	6	8
Concurrent Session	6100000	6250000	6275000	8200000	8251000	8200000	8300000	8300000
New Sessions/sec	52000	86000	87600	128000	136000	138000	140000	141000
Firewall Throughput	6 Gbps	6.2 Gbps	8 Gbps	4 Gbps (8) ⁺	6 Gbps (10) ⁺	8 Gbps (16) ⁺	6 Gbps (10) ⁺	8 Gbps (20) ⁺
UTM Throughput	900 Mbps	1.2 Gbps	1.2 Gbps	950 Mbps	1.1 Gbps	2.2 Gbps	1.1 Gbps	2.2 Gbps
IPS Throughput	1.5 Gbps	2.5 Gbps	2.5 Gbps	2.4 Gbps	2.5 Gbps	2.70 Gbps	2.5 Gbps	2.7 Gbps
VPN Throughput	850 Mbps	1.1 Gbps	1.2 Gbps	850 Mbps	1. Gbps	1.5 Gbps	1 Gbps	1.5 Gbps
VPN	5 Tunnels	5 Tunnels	10 Tunnels	5 Tunnels	5 Tunnels	10 Tunnels	5 Tunnels	10 Tunnels
User Management AAA	Yes							

K7 M-Series UTM

Medium Enterprise Solutions (300-600 users)

High performance UTM appliances ideal for medium to large office deployments.

Throughput Specification	K7 M-Series					
	350 Concurrent Users		500 Concurrent Users		600 Concurrent Users	
Model Name	K7M6350	K7M8350	K7M6500	K7M8500	K7M6600	K7M8600
Ports	6	8	6	8	6	8
Concurrent Session	8500000	8800000	17500000	17530000	20000000	21000000
New Sessions/sec	145000	148000	255000	270000	250000	260000
Firewall Throughput (UDP)	6 Gbps	10 Gbps	6 Gbps	10 Gbps	6 Gbps	10 Gbps
Firewall Throughput (TCP)	6 Gbps	8 Gbps	6 Gbps	8 Gbps	6 Gbps	8 Gbps
UTM Throughput	1.2 Gbps	2.3 Gbps	5.4 Gbps	5.6 Gbps	5.4 Gbps	5.6 Gbps
IPS Throughput	2.5 Gbps	2.7 Gbps	7.5 Gbps	9 Gbps	7.5 Gbps	9 Gbps
VPN Throughput	1.1 Gbps	1.6 Gbps	2.9 Gbps	3.2 Gbps	2.9 Gbps	3.2 Gbps
VPN Tunnels	5	10	5	10	5	10
User Management AAA	Yes					

K7 E-Series UTM

Enterprise Solutions (750-1500+ Users)

Scalable solutions for security and reliability designed for high speed Enterprise networks.

Throughput Specification	K7 E-Series			
	750 Concurrent Users		1000 Concurrent Users	
Model Name	K7E6750	K7E8750	K7E61000	K7E81000
Ports	6	8	6	8
Concurrent Session	22800000	24400000	25000000	25500000
New Sessions/sec	262000	274000	280000	285000
Firewall Throughput	6 Gbps (36) ⁺	8 Gbps (36) ⁺	6 Gbps (36) ⁺	8 Gbps (36) ⁺
UTM Throughput	5.6 Gbps	5.7 Gbps	5.8 Gbps	6 Gbps
IPS Throughput	7.7 Gbps	9.3 Gbps	8 Gbps	9.4 Gbps
VPN Throughput	3 Gbps	3.3 Gbps	3.2 Gbps	3.4 Gbps
VPN Tunnels	20	20	25	25
User Management AAA	Yes			

Superior Performance, Low Cost Network Security

K7 Security's UTM appliances are a cost-effective alternative to premium vendor solutions that lower an organisation's capital investment, reduces costs associated with real-world deployments and lowers the total-cost-of-ownership – all without degrading performance throughput or the security of the network.

The K7 UTM utilise integrated security functionality and built-in networking capabilities that simplify network integration, ease deployment, and reduce the complexity of the network. The centralised management capability of the K7 UTM can significantly reduce the ongoing burden of UTM appliance deployment, remote configuration, and distributed updates, freeing administrators to concentrate on other activities core to the business' success.

K7 UTM solutions are designed to deliver predictable performance, enabling organisations to achieve a highly reliable, secure network with optimised processes and features to meet the availability and throughput requirements of today's enterprise networks.

Decrease Support and Operating Costs to Reduce TCO

K7 Integrated UTM security platforms reduce the time and resources required to deploy and configure across SOHO, SMB, enterprise and branch office networks. The user interface is intuitive and easy to learn, reducing the resources necessary for configuration and ongoing management of K7 Security's UTM appliances.

- Flexible, centralised, policy-based management options facilitate smooth rollouts and eases deployment configuration headaches
 - » Consistent interface across the K7 UTM product line
 - » Manage device, network and security from single interface
 - » Manage the entire solution lifecycle from a single interface
 - » Ability to scale with growing needs of an organisation
 - » Performance and resiliency features minimise downtime, and maximise productivity

ABOUT K7 SECURITY

K7 Security develops endpoint and server anti-malware solutions for small, medium, and enterprise-class businesses that offer a broad range of features and capabilities to meet today's most ardent threats. Available in both Standard and Advanced editions, K7's Endpoint Security can support multiple platforms - including Windows, Linux, Android and iOS – as well as multiple centralised management modes to simplify deployment, streamline IT operations, and meet both internal and external compliance requirements.

Features

- UTM Solutions for SOHO to Enterprise
- Integrated Routing
- Multi LAN/WAN Connection
- Scalable Deployment
- Auto Load Balancer
- Auto Fail Over
- SPI Firewall
- Geo IP Filter
- Web Security
- Content Filter
- Email Security
- K7 Gateway Anti-Malware Engine
- Intrusion Prevention System
- Intrusion Detection System
- AAA User Management
- VPN - SSL/IPSec
- Quality of Service
- DDNS/SNMP/Remote Sys Log
- Traffic Analyser
- Inbuilt Logs & Reports



To learn more about K7 Security's line of products, visit our website at www.k7computing.com

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