**Q: How dangerous is today’s cybercrime environment?**

Your network is under attack as long as it is connected to the internet. To understand how fast cybercrime has grown in recent years, consider the following:

- **By the end of 2016**, according to Kaspersky Lab estimates, the number of new malware samples detected each day exceeded 315,000 unique pieces. This means more than 100 million new malware pieces per year.
- **Destructive potential of malware also grows each year.** The newest strains of Advanced Persistent Threats are now able to physically destroy networks and hardware.
- **Cybercriminals earn hundreds of billions of dollars a year with their exploits.** They will never stop, and security companies now discuss the threat of companies being hacked as a matter of “when” and “how”. Not ever “if”.
- **Mobile devices, smartphones, and even Internet of Things (IoT) devices can be infected and used to further spread the infection to penetrate business networks.**
- **Infection often occurs during routine web browsing, as hacked (or intentionally infected) web sites spread malware using the so-called ‘drive-by’ downloads.**
- **Emails (including infected attachments and targeted phishing attacks) was and remains one of the principal methods of malware penetration into corporate networks,**
- **Thousands of users & businesses each year fall prey to ransomware** – i.e., malware that encrypts your business data and extorts huge sums of money to restore access.

**Q: What are the advantages of adding a gateway AV to my existing endpoint anti-virus solution?**

Anti-malware gateway catches malware at its first point of entry, preventing it from spreading across the internal network. Consider the following:

- **Endpoint AV can be disabled by end-users** (who are irritated by system slowdown or lured in by tempting content that can contain a virus). 
- **Not all devices on the network have AV (routers, printers, other peripherals and IoT devices can be exposed to a virus that entered the network via the gateway).**
- **Endpoints are often out of date** (may miss the required signatures when user returns after a vacation, or in case the update tool malfunctions).

**Q: What is the value of adding anti-malware or UTM capabilities at the gateway?**

Consider the costs of not having a gateway anti-malware solution in place:

- **90% of businesses have been hacked** at least once, according to a survey of 583 U.S. companies performed by the Ponemon Institute. 41% reported damages amounting to $500,000 or more.
- **Time and effort spent cleaning up infections, network performance degradation, lost transactions and stolen confidential information** – all have a direct impact on business.
- **Other costs include the negative effect on company reputation and brand, ultimately causing the loss of customer loyalty.**

**Q: What kind of anti-malware engine is used by ZyXEL?**

ZyXEL Next-Gen Unified Security Gateways are powered by Kaspersky Lab – one of the world’s ‘Big 4’ anti-malware software developers. This results in the most reliable and advanced defense against malware. Consider the following:

In January 2017, the well-known independent anti-malware testing lab, AV-Comparatives, awarded Kaspersky Lab its highest accolade – Outstanding Security Product 2016.

Kaspersky Lab has won this ultimate recognition from AV-Comparatives for the 6th year in a row.

- **Kaspersky has first-class detection rates** – AV-Comparatives consistently awards Kaspersky the highest possible rating – Advanced+.
- **Fast response time and the best defense from new and unknown threats.** Kaspersky has received many GOLD zero-day protection awards from AV-Comparatives and others.
- **Optimum frequency of updates** – 10 to 25 per day and less than 50 KB each: best frequency-to-content ratio.
- **Support for up to 4,000 archive formats.** Kaspersky Lab leads the field in properly identifying malware in compressed files with very low false positive rates.

Please consider the comparison table below:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Kaspersky Lab</th>
<th>McAfee</th>
<th>Symantec</th>
<th>Trend Micro</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV-Comparatives: Oct 2016 Performance Test</td>
<td>Advanced+</td>
<td>Advanced</td>
<td>Not Included</td>
<td>Standard</td>
</tr>
<tr>
<td>AV-Comparatives: Jul-Nov 2016 Real World Protection Test</td>
<td>Advanced+</td>
<td>Standard</td>
<td>Not Included</td>
<td>Advanced</td>
</tr>
<tr>
<td>AV-Test.org, December 2016 Test: Protection/Performance/Usability</td>
<td>6.0/6.0/6.0</td>
<td>5.5/5.0/6.0</td>
<td>6.0/5.5/5.5</td>
<td>6.0/5.0/6.0</td>
</tr>
<tr>
<td>MRG Effitas 360 Assessment &amp; Certification Programme - Q4 2016</td>
<td>Level 1</td>
<td>Failed</td>
<td>Level 2</td>
<td>Level 2</td>
</tr>
<tr>
<td>SE Labs Enterprise Q4 2016 AV Protection Rating/Score</td>
<td>AAA (1136)</td>
<td>8 (945)</td>
<td>AAA (1115)</td>
<td>Not Included</td>
</tr>
<tr>
<td>SE Labs Home Q4 2016 AV Protection Rating/Score</td>
<td>AAA (1136)</td>
<td>8 (917)</td>
<td>AAA (1115)</td>
<td>AAA (1113)</td>
</tr>
</tbody>
</table>
Q: Which ZyXEL devices have the UTM or Kaspersky Anti-Virus solution on board?

ZyXEL Next Generation USG (Unified Security Gateway) series are equipped with Kaspersky’s SafeStream II technology, which empowers the system administrators to achieve the best level of security within their networks without hindering the performance and quality of service.

- **Extreme Series: USG1100, USG1900** – provides high availability, robust security service and simplified management for medium to large sized businesses.
- **Advanced Series: USG110, USG210, USG310** – offers specific features to provide secure and always-online network protection for small-to-medium-sized businesses.
- **Performance Series: USG40, USG40W, USG60, USG60W** – offers truly integrated security for remote offices, retail locations and small businesses.

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Q: How do I purchase a subscription for the UTM with Kaspersky AV?

**Purchasing licenses:**

Licenses can be easily activated, renewed and managed at myZyXEL.com 2.0 which is ZyXEL’s online service center where users can register ZyXEL devices and activate featured license services.


**Trial bonus:**

ZyXEL Next Generation USG (Unified Security Gateway) series can be purchased with bundled 12-month standard kaspersky Anti-virus license with extra 1-month trial.

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#### Performance Series

<table>
<thead>
<tr>
<th>Model</th>
<th>USG40/40W</th>
<th>USG60/60W</th>
<th>USG110</th>
<th>USG210</th>
<th>USG310</th>
<th>USG1100</th>
<th>USG1900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature Highlights</td>
<td>3 x GbE R/45, 1 x USB, 400 Mbps firewall, 1,500 Mbps VPN, 90 Mbps UT3M</td>
<td>5 x GbE R/45, 2 x USB, 400 Mbps firewall, 1,500 Mbps VPN, 90 Mbps UT3M</td>
<td>7 x GbE R/45, 2 x USB, 400 Mbps firewall, 1,500 Mbps VPN, 90 Mbps UT3M</td>
<td>8 x GbE R/45, 2 x USB, 400 Mbps firewall, 1,500 Mbps VPN, 90 Mbps UT3M</td>
<td>8 x GbE R/45, 2 x USB, 400 Mbps firewall, 1,500 Mbps VPN, 90 Mbps UT3M</td>
<td>8 x GbE R/45, 2 x USB, 400 Mbps firewall, 1,500 Mbps VPN, 90 Mbps UT3M</td>
<td></td>
</tr>
<tr>
<td>Feature Highlights</td>
<td>50 Mbps 1DP</td>
<td>120 Mbps 1DP</td>
<td>250 Mbps AV</td>
<td>100 Mbps 1DP</td>
<td>250 Mbps AV</td>
<td>100 Mbps 1DP</td>
<td>250 Mbps AV</td>
</tr>
<tr>
<td>Feature Highlights</td>
<td>50 Mbps UT3M</td>
<td>90 Mbps UT3M</td>
<td>250 Mbps UT3M</td>
<td>100 Mbps UT3M</td>
<td>400 Mbps UT3M</td>
<td>500 Mbps UT3M</td>
<td>600 Mbps UT3M</td>
</tr>
</tbody>
</table>

**License:** Kaspersky Anti-Virus, EDR, Content Filtering, Anti-Spam, and SSL VPN (Depending on models)

**Software:** P15c VPN Client, and Vantage Report

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**Note:**

- Performance: Actual performance may vary depending on network conditions and activated applications.
- Firewall throughput: Maximum throughput based on RFC 2544 (1,156 bytes/IP packet).
- VPN throughput: Measured based on RFC 2544 (1,156 bytes/IP packet).
- FTP throughput: Measured using the industry standard HTTP performance test (1,440 bytes HTTP packet) testing done with multiple flows.
- UTM AV and DPI throughput: Maximum sessions measured using the industry standard /DM policy testing tool.
- Product availability varies by country and region. Please contact local sales team regarding availability in your region.