



Kaspersky IoT Secure Gateway 1000 Feature list

Kaspersky IoT Secure Gateway 1000 helps to build secure and functional internet of things systems. This KasperskyOS-based gateway is Cyber Immune, which means it will perform its critical functions even in an aggressive environment.

KISG 1000 serves as a reliable connection point between IoT devices and cloud platforms, protects the infrastructure from cyberattacks and makes it transparent. The gateway securely collects data and transfers it to the cloud via the MQTT over TLS protocol.

The **Kaspersky Security Center** console enables convenient centralized monitoring and administration of all KISG 1000 events. Together, the two products form the comprehensive **Kaspersky IoT Infrastructure Security** solution.

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Hardware platform	Advantech UTX-3117
Processor	Intel Pentium N4200, 1.1GHz, 2MB L2 Cache
RAM	4GB, DDR3L, 1600MHz
Drives	SATA II SSD (32 GB), 2xMiniPCIe, 1xM.2 B-key
Interfaces	2xGbE LAN
Dimensions	128x152x37mm
Operating temperature range	-20 to 60°C
Extras	SIM card

Connection	
Ethernet	Two gigabit interfaces for connecting to different network segments via a twisted pair (LAN and WAN)
Cellular modem	Mobile data network as the primary or backup data channel
Routing and NAT	Automatic routing between KISG 1000 interfaces NAT managing (masquerading)
DHCP server	Automatic propagation of network configuration to IoT and other devices on the local network
MQTT broker	Mosquitto-based MQTT broker allowing centralized collection of data from IoT devices (sensors and actuators, smart relays, etc.)

OpenSSL/TLS	Support of common mechanisms for cryptographic protection of data transmitted via the MQTT (Syslog) protocol
MQTT over TLS	Secure connection and protected transmission of data between the gateway and the cloud platform
Integration with cloud services	MS Azure, Amazon AWS, IBM Bluemix, etc. Works with any cloud systems using the MQTT protocol

Flexible security and gateway management


Web interface	User-friendly configuration and monitoring of the IoT network, visibility and transparency thanks to WebGUI. Informative dashboard allows you to get all the information you need quickly
Centralized management system	The Kaspersky Security Center platform allows managing events received from all KISG 1000 units deployed within the organization's infrastructure. It also allows tracking the status of gateways and managing their configuration

IoT gateway protection against cyberattacks


Secure by design	The Cyber Immune KasperskyOS operating system rules out device compromise, thus making a data leak or penetration of the enterprise infrastructure impossible
Secure boot	Verification of the integrity and authenticity of gateway firmware using cryptographic methods before loading the image. Firmware that is damaged or altered without authorization will not be loaded
Secure update	Working in conjunction with Secure boot, this technology allows updating the firmware with properly signed and encrypted images only

IoT infrastructure protection

IDS/IPS and firewall	The firewall uses the principle of Default Deny. The administrator can rest assured that only allowed network interactions will pass through the gateway. The IDS/IPS (Intrusion Detection and Prevention) module blocks malicious activity detected using a signature set prepared by Kaspersky specialists, and notifies the administrator
Detection and classification of IoT devices	Detects devices on the local network by their network activity. The user interface can display all the network devices already interacting with KISG 1000, while new ones will be detected within 60 seconds
Reports and notifications (MQTT, Syslog, push notifications, Kaspersky Security Center)	The administrator can receive KISG 1000 security events in a single enterprise security management system (Kaspersky Security Center), and transmit events to external systems (SIEM, cloud platforms, etc.) using the Syslog and MQTT protocols. KISG 1000 supports integration with Google Firebase for sending push notifications to mobile devices



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IoT Secure
Gateway 1000**

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