

# KASPERSKY EMBEDDED SYSTEMS SECURITY

*All-in-one security designed for Embedded systems*

The threat environment is advancing exponentially, putting critical business processes, confidential data and financial resources at ever-increasing risk from zero-second attacks. To mitigate the risk to your business, you need to be smarter, better equipped and better informed than the cyber-professionals targeting you.

Today we see Embedded systems everywhere: in ticketing machines, ATMs, kiosks, Point of Sale systems, medical equipment... the list goes on. Embedded systems are a particular security concern as they tend to be geographically scattered, challenging to manage and rarely updated. They have to be fault tolerant and resistant, operating as they do with cash and with credit card credentials. Embedded devices must not just be protected against threats in themselves, but must not be accessible by cybercriminals or an inside attacker as an entry point into the corporate network.

Standard security regulations for Embedded devices tend to cover only antivirus based security or system hardening, which is not enough. A purely antivirus approach is of limited effectiveness against current Embedded systems threats, as has been amply demonstrated in recent attacks. Now is the time to apply well-proven technologies like Device Control and Default Deny, with an additional Antivirus module applied to critical systems where required.

## SOLUTION HIGHLIGHTS

### **LOW-END HARDWARE**

Kaspersky Embedded Systems Security has been built specifically to operate effectively even on low-end hardware. Efficient design delivers powerful security with no risk of systems overload.

### **WINDOWS XP OPTIMIZED**

The majority of Embedded systems still run on the now unsupported Windows® XP family OS. Kaspersky Embedded Systems Security has been optimized to run with full functionality on the Windows XP platform as well as the Windows 7, Windows 2009 and Windows 10 families.

### **ISOLATED, SECURED, NETWORK-READY**

Malware signatures can be updated automatically through the internet, or manually for the isolated secured networks typical of Embedded systems. With 'Default Deny only' installation, no updates are needed.

### **POWERFUL THREAT INTELLIGENCE**

Based on unequalled sources of real-time threat intelligence, our technologies continually evolve to protect your business from even the latest, most sophisticated threats, including zero-day exploits. By aligning your security strategy with the world leaders in advanced threat discovery, you are choosing to adopt best of breed endpoint protection, now and in future. There is no better security posture for your organization.

### **CENTRALIZED MANAGEMENT**

Security policies, signature updates, antivirus scans and results collection are easily managed through a single centralized management console – Kaspersky Security Center. All the agents in a local area network can be managed through any local console – particularly valuable when working with the isolated, segmented networks typical of Embedded systems.

## Default Deny

The last 10 years has seen an increase in malware developed specifically to attack Embedded systems, including Tyupkin, Skimer, Carbanak and their families. Most traditional antivirus solutions cannot fully defend against such advanced, targeted, malware threats. A classical antimalware solution is not effective against the many targeted threats which are not based on malware, but use insiders' middleware in a different attack approach. Default Deny functionality means that no executable files, drivers and libraries, other than software protection, can run without approval from the Security Administrator.

## Device Control

Device Control from Kaspersky Lab gives you the ability to control USB storage devices connected or trying to connect physically to systems hardware. Preventing access by unauthorized devices means you block a key point of entry, used regularly by cybercriminals as the first step in a malware attack.

## Windows XP – Windows 10 Ready

After 12 years, support for Windows XP Embedded ended on January 12, 2016 and for Windows Embedded for Point of Service on April 12, 2016. There will be no more security updates or technical support for the Windows XP operating system. Kaspersky Embedded Systems Security provides 100% support for the Windows XP family.

## Designed for Embedded Systems Hardware

Kaspersky Embedded Systems Security is designed to be fully effective on the low-end systems which are a feature of most Embedded systems hardware. Requirements start from only 256Mb RAM for the Windows XP family, with around 50Mb space required on the system hard drive when operating in 'Default Deny only' mode. The antivirus module is designed only to use hardware resources during manual or scheduled antivirus scans.

## Antivirus and Kaspersky Security Network

Antivirus is provided as an optional module. Using a classic "antimalware approach" is impractical due to of the limitations of low-end hardware, and is anyway largely ineffective in this unique threat landscape. Once Kaspersky Embedded Systems Security is installed in Device Control and Default Deny mode, additional antivirus is not always necessary, but can be added as a further security level where needed.

Kaspersky Lab also recommends applying intelligent security in the form of the Kaspersky Security Network knowledge base, to prevent and mitigate exploit-based security risks and minimize reaction time.



### OPTIMIZED EFFICIENCY - INTEGRATED MANAGEMENT

Kaspersky Embedded Systems Security provides your security teams with full visibility and control over every Embedded node.

Infinitely scalable, the solution provides access to inventories, licensing, remote trouble-shooting and network controls, all accessible from one console – the Kaspersky Security Center.

The security specialist can manage all agents within an area network through any local console.

### MAINTENANCE AND SUPPORT

Operating in more than 200 countries, from 34 offices worldwide, our 24/7/365 commitment to global support is reflected in our Maintenance Service Agreement (MSA) support packages.

Our Professional Services teams are on standby to ensure that you derive maximum benefit from your Kaspersky lab security installation.

*To learn more about securing your Embedded systems more effectively, please visit [www.kaspersky.com/enterprise](http://www.kaspersky.com/enterprise)*