

Customer Premises  
Equipment Catalogue

# Kaspersky SD-WAN Edge Service Router





## Kaspersky SD-WAN

Behind the interaction of KESR devices are the centralized Kaspersky SD-WAN components such as controller and orchestrator. A unified web interface lets you manage the solution itself as well as lots of devices, automating their configuration. This approach streamlines troubleshooting and makes managing your entire branch network a breeze for IT staff.

## Overview

The Kaspersky SD-WAN Edge Service Router (KESR) is Customer Premises Equipment (CPE) located at a company's sites – branches, for example – connecting them to the corporate SD-WAN network. CPE is controlled by pre-installed Kaspersky SD-WAN software. KESR Model 2 makes this connection smooth and fast, and doesn't require any additional configurations thanks to Zero-Touch Provisioning, reducing deployment time to minutes.

## Under the hood

### Kaspersky SD-WAN и KESR

Kaspersky SD-WAN, together with KESR devices, provides access to all company resources via diverse communication channels, including LTE, and converges them to unify the network infrastructure of distributed companies. Kaspersky SD-WAN offers a number of smart features such as Quality of Service (QoS), built-in Deep Packet Inspection (DPI), Forward Error Correction (FEC), Packet Duplication and more, that deliver efficient data transfer and application performance even with unstable connections. The solution secures all locations using VPN overlay, and centralizes device configurations, security policies and traffic rules.



The Kaspersky SD-WAN Edge Service Router (KESR) line offers devices with various interfaces and performance. Connect any location, from large branches to home offices.



Zero-Touch Provisioning for new locations



Kaspersky SD-WAN single management console or the integration with OSMP (Open Single Management Platform)



Desktop setup as well as wall or 19' rack mount



Unified device with various network functions on board



# KESR model line



## KESR Model 2

The junior model offers a wide range of features. KESR Model 2 is suitable for small and medium businesses that need efficient performance at an affordable price.

**150 Mb/s**

Total throughput\*



LTE with 2 x SIMs and 10 Gb/s SFP+ ports



Powered by a 4-core Intel processor



## KESR Model 3

KESR Model 3 is the golden mean of performance and price. This device is suitable for medium-sized companies as well as enterprises.

**300 Mb/s**

Total throughput\*



LTE with 2 x SIMs and 10 Gb/s SFP+ ports



Powered by an 8-core Intel processor

## vCPE



Allows to run CPE on your own virtual resources and scale them depending on your needs



The total throughput and types of network interfaces depend on your hardware and virtual machine characteristics



Minimum system requirements: 2 vCPU, 512 MB RAM, 4 GB HDD

\* Full-duplex mode with DPI analysis for IMIX packets

# KESR specifications

## KESR Model 2

## KESR Model 3

<b>CPU</b>	4 × cores Intel® Atom® C3000	8 × cores Intel® Atom® C3000
<b>Memory</b>	1-channel, single-rank DDR4 down, 8 GB total	1-channel, dual-rank DDR4 down, 16 GB total
<b>Storage</b>	Onboard eMMC SSD: 64 GB	Onboard eMMC SSD: 128 GB
<b>WAN</b>	<ul style="list-style-type: none"><li>• 1 × 4G LTE radio card, 2 × external LTE antennas, 2 × SIM cards</li><li>• 2 × auto media detect 1 Gb/s copper/fiber ports</li><li>• 2 × 10 Gb/s SFP+ cages for xgsPON or SFP transceivers</li></ul>	<ul style="list-style-type: none"><li>• 1 × 4G LTE radio card, 2 × external LTE antennas, 2 × SIM cards</li><li>• 2 × auto media detect 1 Gb/s copper/fiber ports</li><li>• 2 × 10 Gb/s SFP+ cages for xgsPON or SFP transceivers</li></ul>
<b>LAN</b>	<ul style="list-style-type: none"><li>• 4 × 2.5 Gb/s RJ-45</li></ul>	<ul style="list-style-type: none"><li>• 4 × 2.5 Gb/s RJ-45</li></ul>
<b>Local access</b>	RJ-45 and micro-USB console ports (auto-detect)	RJ-45 and micro-USB console ports (auto-detect)
<b>Security</b>	<ul style="list-style-type: none"><li>• Secure boot</li><li>• Kensington lock receptacle</li></ul>	<ul style="list-style-type: none"><li>• Secure boot</li><li>• Kensington lock receptacle</li></ul>
<b>LED</b>	3 × front panel multicolor LEDs: <ul style="list-style-type: none"><li>• power indicator</li><li>• operation readiness</li><li>• SD-WAN controller connection</li></ul>	3 × front panel multicolor LEDs: <ul style="list-style-type: none"><li>• power indicator</li><li>• operation readiness</li><li>• SD-WAN controller connection</li></ul>
<b>RTC</b>	<ul style="list-style-type: none"><li>• RTC embedded in CPU</li><li>• Internal battery</li></ul>	<ul style="list-style-type: none"><li>• RTC embedded in CPU</li><li>• Internal battery</li></ul>
<b>Bootloader</b>	Embedded UEFI BIOS	Embedded UEFI BIOS
<b>Power input</b>	+12 VDC locking barrel jack	+12 VDC locking barrel jack
<b>Power supply</b>	<ul style="list-style-type: none"><li>• External desktop PSU</li><li>• Regional AC cord options included</li></ul>	<ul style="list-style-type: none"><li>• External desktop PSU</li><li>• Regional AC cord options included</li></ul>
<b>Environmental</b>	0 °C to +40 °C operating temperature	0 °C to +40 °C operating temperature
<b>Dimensions</b>	256 × 200 × 44 mm (W × D × H)	256 × 200 × 44 mm (W × D × H)
<b>Mounting options</b>	<ul style="list-style-type: none"><li>• Desktop</li><li>• Wall-mount accessory kit (optional)</li><li>• Rackmount accessory kit (optional)</li></ul>	<ul style="list-style-type: none"><li>• Desktop</li><li>• Wall-mount accessory kit (optional)</li><li>• Rackmount accessory kit (optional)</li></ul>

# Kaspersky SD-WAN capabilities

Capability	Description
Deployment	<ul style="list-style-type: none"><li>• On-premise</li><li>• Clouds (private or public)</li></ul>
Virtual Network Functions (VNFs) and Network Management	<ul style="list-style-type: none"><li>• ETSI MANO</li><li>• Integration of platform management with OSMP (Open Single Management Platform)</li><li>• VNF support (Kaspersky as well as third-party vendors' products)</li><li>• Service-chain lifecycle management</li><li>• Active-Active Multimaster</li></ul>
CPE types	<ul style="list-style-type: none"><li>• Servers</li><li>• Virtual CPE</li></ul>
Management	<ul style="list-style-type: none"><li>• Centralized management of CPE software versions and Kaspersky SD-WAN central components</li><li>• Out-of-Band management for CPE (through underlay network without customer's tunnels)</li></ul>
SD-Branch	<ul style="list-style-type: none"><li>• LAN segmentation</li><li>• Local services (DHCP and etc.)</li><li>• DHCP static reservation</li><li>• Local internet access</li><li>• VNF support for Universal CPE (uCPE)</li></ul>
Supported communication channels	<ul style="list-style-type: none"><li>• 4G</li><li>• MPLS</li><li>• Ethernet</li><li>• PPPoE</li></ul>
Supported network topologies	<ul style="list-style-type: none"><li>• Full mesh</li><li>• Partial mesh</li><li>• Hub-and-Spoke</li></ul>
Zero Touch Provisioning	<ul style="list-style-type: none"><li>• DHCP</li><li>• Static</li><li>• Two-factor authentication support</li><li>• URL Auth</li></ul>
VPN/Overlay	<ul style="list-style-type: none"><li>• L2 Point-to-Point</li><li>• Point-to-Multipoint</li><li>• Multipoint-to-Multipoint</li><li>• L3 VPN</li></ul>
Fault tolerance and redundancy	<ul style="list-style-type: none"><li>• High-availability cluster of central components</li><li>• SD-WAN gateways redundancy (active/active)</li><li>• CPE redundancy (VRRP)</li></ul>
LAN segmentation	Full 802.1q support for CPE LAN-ports (Access, Trunk, Q-in-Q)
Routing	<ul style="list-style-type: none"><li>• Static</li><li>• BGP</li><li>• OSPF</li><li>• BFD</li><li>• PIM</li><li>• NAT (PAT, SNAT, DNAT)</li><li>• VRF Lite</li><li>• Multicast service support for SD-WAN network</li><li>• Path MTU discovery support</li></ul>

WAN load balancing and fault tolerance	<ul style="list-style-type: none"> <li>• Active/Standby</li> <li>• Active/Active</li> <li>• Bonding</li> </ul>
Channel quality control	<ul style="list-style-type: none"> <li>• SLA assessment based on traffic active probes</li> <li>• Link State Control</li> <li>• BFD</li> </ul>
Channel optimization	<ul style="list-style-type: none"> <li>• FEC</li> <li>• Packet Duplication</li> </ul>
Quality of Service (QoS)	<ul style="list-style-type: none"> <li>• Multilayer QoS</li> <li>• 8 queues per virtual service</li> <li>• DSCP support</li> <li>• SLA assessment (loss, jitter and delay)</li> <li>• QoS remapping support for CPE WAN interfaces</li> <li>• Policing and shaping support</li> </ul>
L7 traffic routing	<ul style="list-style-type: none"> <li>• Built-in DPI</li> <li>• Application aware routing</li> <li>• Application SLA</li> </ul>
Security	<ul style="list-style-type: none"> <li>• Stateful Firewall</li> <li>• Built-in High-Speed Encryption support</li> <li>• Encryption configuration per channel</li> </ul>
Monitoring	<ul style="list-style-type: none"> <li>• Monitoring of central components, CPEs, VNF</li> <li>• Network Test Access Point (TAP)</li> <li>• NetFlow</li> </ul>

## Order your own KESR



### Model

KESR Model 2

KESR Model 3

### Stock Keeping Unit (SKU)

Kaspersky SD-WAN ESR (GI) Model 2

Kaspersky SD-WAN ESR (GI) Model 3

1

Define the number of CPEs you need

2

Contact us and specify the SKU

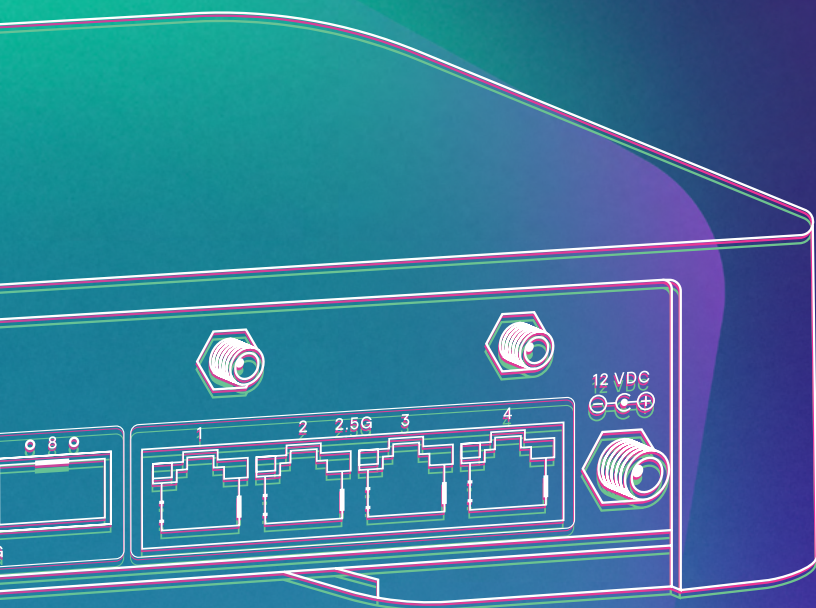
[Contact us](#)





# Kaspersky SD-WAN

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