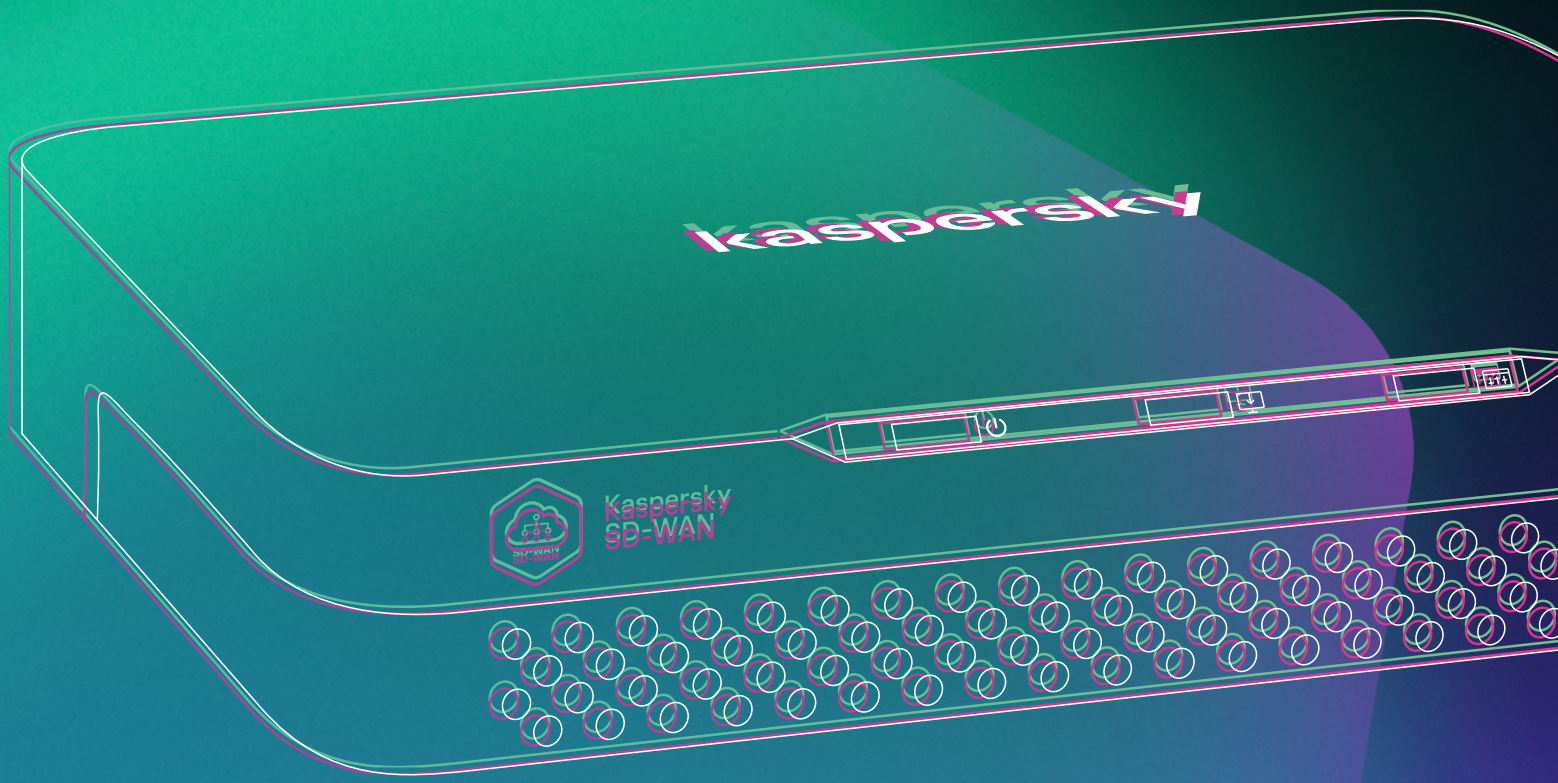


Customer Premises
Equipment Catalogue

Kaspersky SD-WAN Edge Service Router

kaspersky bring on the future

Kaspersky SD-WAN

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.

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.

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.

Key features

Zero-Touch Provisioning for new locations

Kaspersky SD-WAN single management console

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, Wi-Fi 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, Wi-Fi 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
CPU	4 × cores Intel® Atom® C3000	8 × cores Intel® Atom® C3000
Memory	1-channel, single-rank DDR4 down, 8 GB total	1-channel, dual-rank DDR4 down, 16 GB total
Storage	Onboard eMMC SSD: 64 GB	Onboard eMMC SSD: 128 GB
WAN	• 1 × 4G LTE radio card, 2 × external LTE antennas, 2 × SIM cards • 2 × auto media detect 1 Gb/s copper/ fiber ports • 2 × 10 Gb/s SFP+ cages for xgsPON or SFP transceivers	• 1 × 4G LTE radio card, 2 × external LTE antennas, 2 × SIM cards • 2 × auto media detect 1 Gb/s copper/ fiber ports • 2 × 10 Gb/s SFP+ cages for xgsPON or SFP transceivers
LAN	• Dual-band 802.11ax Wi-Fi, 2 × internal Wi-Fi antennas • 4 × 2.5 Gb/s RJ-45	• Dual-band 802.11ax Wi-Fi, 2 × internal Wi-Fi antennas • 4 × 2.5 Gb/s RJ-45
Local access	RJ-45 and micro-USB console ports (auto-detect)	RJ-45 and micro-USB console ports (auto-detect)
Security	• Secure boot • Kensington lock receptacle	• Secure boot • Kensington lock receptacle
LED	3 × front panel multicolor LEDs: • power indicator • operation readiness • SD-WAN controller connection	3 × front panel multicolor LEDs: • power indicator • operation readiness • SD-WAN controller connection
RTC	• RTC embedded in CPU • Internal battery	• RTC embedded in CPU • Internal battery
Bootloader	Embedded UEFI BIOS	Embedded UEFI BIOS
Power input	+12 VDC locking barrel jack	+12 VDC locking barrel jack
Power supply	• External desktop PSU • Regional AC cord options included	• External desktop PSU • Regional AC cord options included
Environmental	0 °C to +40 °C operating temperature	0 °C to +40 °C operating temperature
Dimensions	256 × 200 × 44 mm (W × D × H)	256 × 200 × 44 mm (W × D × H)
Mounting options	• Desktop • Wall-mount accessory kit (optional) • Rackmount accessory kit (optional)	• Desktop • Wall-mount accessory kit (optional) • Rackmount accessory kit (optional)

Kaspersky SD-WAN capabilities

Capability	Description
Deployment	• On-premise • Clouds (private or public)
Virtual Network Functions (VNFs)	• ETSI MANO • VNF support (Kaspersky as well as third-party vendors' products) • Service-chain lifecycle management
CPE types	• Servers • Virtual CPE • Universal CPE (x86, ARM 64) • Light-CPE (x86, ARM v8/64, MIPS)
Management	• Centralized management of CPE software versions and Kaspersky SD-WAN central components • Out-of-Band management for CPE (through underlay network without customer's tunnels)
SD-Branch	• LAN segmentation • Local services (Wi-Fi, DHCP and etc.) • Local internet access • VNF support for Universal CPE (uCPE)
Supported communication channels	• 4G • MPLS • Ethernet • PPPoE
Supported network topologies	• Full mesh • Partial mesh • Hub-and-Spoke
Zero Touch Provisioning	• DHCP • Static • Two-factor authentication support • URL Auth
VPN/Overlay	• L2 Point-to-Point • Point-to-Multipoint • Multipoint-to-Multipoint • L3 VPN
Fault tolerance and redundancy	• High-availability cluster of central components • SD-WAN gateways redundancy (active/active) • CPE redundancy (VRRP)
LAN segmentation	Full 802.1q support for CPE LAN-ports (Access, Trunk, Q-in-Q)

Routing	• Static • BGP • OSPF • BFD • PIM • NAT (PAT, SNAT, DNAT) • VRF Lite • Multicast service support for SD-WAN network • Path MTU discovery support
WAN load balancing and fault tolerance	• Active/Standby • Active/Active • Bonding
Channel quality control	• SLA assessment based on traffic active probes • Link State Control • BFD
Channel optimization	• FEC • Packet Duplication
Quality of Service (QoS)	• Multilayer QoS • 8 queues per virtual service • DSCP support • SLA assessment (loss, jitter and delay) • QoS remapping support for CPE WAN interfaces • Policing and shaping support
L7 traffic routing	• Built-in DPI • Application aware routing • Application SLA
Security	• Stateful Firewall • Built-in High-Speed Encryption support • Encryption configuration per channel
Monitoring	• Monitoring of central components, CPEs, VNF • Network Test Access Point (TAP) • NetFlow

Order your own KESR

Model	Stock Keeping Unit (SKU)
KESR Model 2	Kaspersky SD-WAN ESR (GI) Model 2
KESR Model 3	Kaspersky SD-WAN ESR (GI) Model 3

1

Define the number of CPEs you need

2

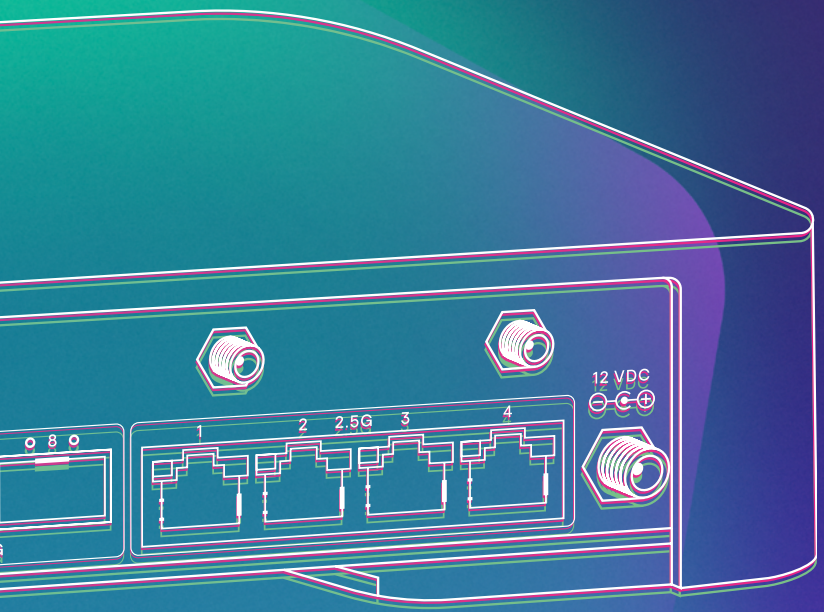
Contact us and specify the SKU

Contact us

SD-WAN

Kaspersky SD-WAN

Learn more



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