



Windbit SDE-11K Series

Windbit SDE-11K: Branch or Datacenter
SD-WAN edge

Introduction

The SDE-11K is a powerful and flexible platform thanks to an optimized hardware architecture that includes several 10Gbps interfaces.

This new device, with Intel architecture, delivers high performance and low processing latencies being the optimal solution for headquarters or main offices with top requirements for a large number of users.

Together, HW innovation and SW evolution in this device offer customers a high level of productivity and a very good user experience.

It is a carrier-grade device that can migrate to SDWAN or secure services in an easy way delivering all the Teldat SDWAN advantages to IT managers.

Highlight

- Ready for 20Gbps aggregated services
- Traditional or SDWAN integrated edge router
- Based on trusted x86 architecture
- Optimal solution for regional/big branch offices or datacenter infrastructure
- Redundant power supply(Factory option)
- 5G models for high quality backup with eSim
- Dying Gasp accessory(Factory option)

Interfaces

High speed connections	4x SFP/SFP+ 1/10G ports
Low speed connections	4x RJ45 GE ports
Radio interfaces	1x4G/5G SA/NSA and/or Wi-fi 7 Dual Radio 2x2
Display port / USB ports	1 x VGA / 2 x USB 2.0(Future purposes)
Console/Management ports	1 x Serial RJ45/1 x RJ45 1Gbps, dedicated
Reset button	Yes



Competitive Advantages

Flexible platform for all scenarios	It is the perfect solution as router or SD-WAN edge for multi-WAN or multi-LAN scenarios, supporting a wide variety of connectivity configurations.
Cloud or embedded security	The new SDE-11K is integrated with Teldat SASE architecture, including secure web gateway (SWG) and next generation firewall (NGFW)
Extended Detection and Response	The SDE-11K permits to IT teams to regain visibility and control of its Cloud-based physical and virtual networks thanks to the Teldat be.Safe XDR Solution

Key Features

- High performance for advanced routing services** Reliable in scenarios up to 20Gbps IMIX aggregated with services thanks to its powerful hardware multi-core architecture
- Flexible high speed ports configuration** 4x 10Gbps interfaces are available in any type of configuration, as WAN or LAN ports. And 4x RJ45 GE interfaces for full flexibility in all scenarios.
- Corporate security cloud solutions** The SDE-11K supports software security features and additional cloud services like be.Safe Smart for soft requirements in security and be.Safe Premium for complete threat protection.
- Console port for out-of-band management** Operator/integrator managed services require out-of-band management to prevent them from interfering with customer networks. A console port is available for local managers with secure access.
- Dying Gasp option** Power failure alarm notification facilitates diagnosis and speeds up incident resolution, optimizing committed SLAs.
- Redundant power supply** Critical services must be available 24 hours a day, 7 days a week, 365 days a year, so for these scenarios, the customer will always introduce devices with redundant power supply(Option).
- Professional and carrier grade software features** The SDE-11K software is the standard Teldat OS that has been validated in many validation processes for corporate services around the world

HARDWARE TECHNICAL FEATURE

10Gbps interfaces

4x 10GBase-R (SFP+) ports
SFP+: Up to 10Gbps
1000-Base-X (SFP), 10G-BaseR (SFP+), SFP/SFP+ MSA Compliant

Dimensions and Weight

440 mm x 360 mm x 44.5 mm (1U Rackmount)
Approximate weight: pending
Format: 19-inch chassis with rack accessory; front to back fan flow design

Up to 2x redundant power sources

100Vac/240Vac, Minimum: 85Vac, Maximum: 264 Vac
60Hz/50Hz, Minimum: 47Hz, Maximum: 63Hz
Max. Power Consumption: 72W

1Gbps interfaces

4x RJ45 GE ports
RJ45: 10Base-T, 100Base-T, 1000Base-T
BaseT automatic detection, Duplex/half duplex automatic negotiation, MDI/MDI-X crossover detection

Environmental specifications

Temperature: 0 to 40 °C, Storage: -40°C - +70°C
Atmospheric pressure: 700 to 1060 mbars
Operational: 5-90% non-condensing

5G WWAN (Some models)

Radio module 5G-NR (Sub-6GHz) SA/NSA Global
Model: SDXIP002-11K: Chassis with 4x10GbE SFP+, 4xGbE RJ45, 5G, 1x PSU
WLAN (Some models)

SOFTWARE TECHNICAL FEATURE

IP protocol

ARP, MTU discovery, NAT/PAT, ICMP, BFD, Netflow(IPFix)
RIPv1/2, OSPFv3, BGPv4, Load balancing, PBR-Policy Based static/dynamic Routing
Virtual Router Forwarding (Multi-VRF)

Security

IPSec support in transport and tunnel mode. DMVPN
Pre-shared authentication, RSA, Certificates, md5, sha1, sha256, sha384 or sha512
Encrypted: DES (56 bits), 3DES (168 bits), AES (128, 192 and 256 bits)

IP services

DHCP, DNS, FTP, SFTP, SSH server v1/2, Telnet server and client
NTP, Syslog, SCP client. TFTP server
DHCP, dynDNS relay

IPv6

Dual Stack, IP6oIPv4, IPv4oIPv6, GRE, 6rd, DHCP, ICMPv6, SLAAC
Static and dynamic routing RIPng, OSPFv3

SDWAN networks

Overlay over hybrid networks with App-aware routing, QoS and Visibility
Central SD-WAN flow control including Zero Touch Provisioning
Applications Service Chaining

IP protocol (2)

Multicast: IGMP (v1,v2, v3), PIM-SM, PIM-SSM, IPSLA service probes (delay, package loss, jitter)
High availability: VRRP

Security (2)

Certificates: CSR, SCEP, X.509v3, PKIX, LDAP revocation
Static and dynamic access lists(ACLs) and session-based Firewall
DoS/DDoS detection, 802.1X control access

Quality of Service QoS

IP Precedence, DiffServ and COS labeling for BW management
BW prioritization and limitation
Up to 16 queues per interface. PQ,LLQ,WFQ,CBWFQ,WRED

Management

CLI configuration and storage in a plain text file
Cloud Net Manager tool(HTTPS based)
RADIUS and TACACS+ AAA support, SNMPv1, v2c y v3

ADDITIONAL TECHNICAL FEATURE

Accessories(Factory Options)

Dying Gasp option
Trusted Platform Module(TPM 2.0)(Roadmap)
Integrated eSim(Roadmap)

Memory

RAM: 8GB DDR4
FLASH: 32GB SSD

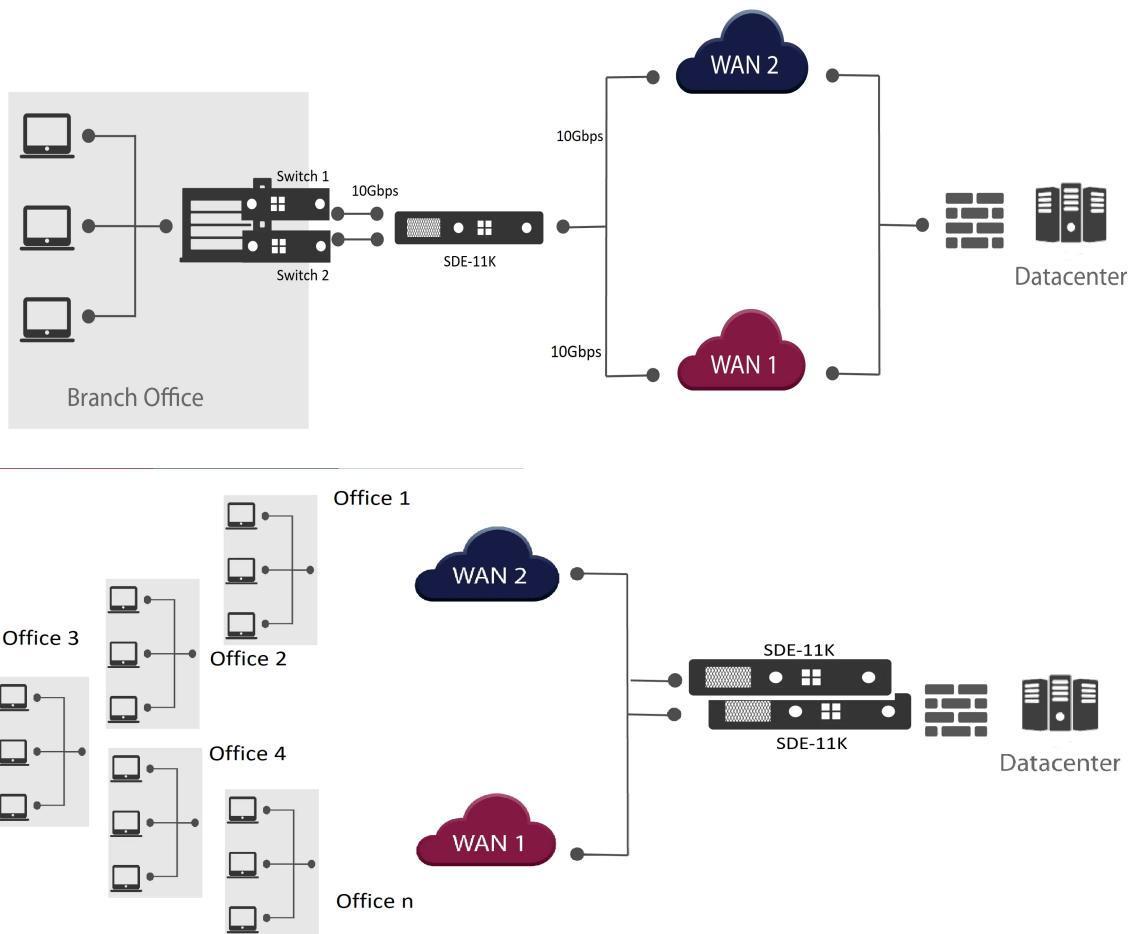
Rack kit 19"

Included by default

1x Power supply included by default

The second PSU is a factory option

Scenarios



Teldat Group



Founded in 1985, Teldat is a Spanish company whose mission is to provide companies with valuable solutions for cloud access, remote office communications, cybersecurity and voice/data connectivity both in the office and in specific environments whether they are industrial, railway, vehicles or public services.

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