

Introduction

The SDE-10K device class is perfectly suited as an edge device solution for data centers as well as large branch and subsidiary offices. Especially small and medium-sized enterprises with adequate performance requirements can benefit from the balance between price, performance and functionality. But also for large enterprises, with high performance requirements (up to 1 Gbps) in decentralized branch offices, this device class is well suited to establish and operate a state-of-the-art SD-WAN network and to benefit from corresponding advantages ZTP, overlay technologies and security and performance enhancing clustering.



Product Highlights

- ▶ Integrated SD-WAN management
- ▶ Highly secure RFC compliant encryption methods
- ▶ Zero Touch Provisioning integrated
- ▶ Professional and advanced O.S.
- ▶ Based on trusted x86 architecture
- ▶ 19-inch form factor 1 UE

Product Description

The SDE-10K can be used as a class of device both as a concentrator for smaller data centers with average throughput requirements or as an edge device solution for branch offices of enterprise companies with high throughput requirements. It offers a very good price-performance ratio and high reliability in active-active configurations and supports the overlay in both MPLS and Internet scenarios. Considering the importance of efficiency and performance in this type of scenario, SDE-10K is offered as a hardware plus software solution that covers high requirements. Since Teldat offers the complete stack solution, the software can be optimized to run on x86 hardware with specific physical resources. The future of bare metal devices lies in their universality through virtualization and the SDE-10K paves the way for this in smaller scenarios in a cost effective and performant way.

Competitive Advantage

SD-WAN system	SDE-10K is closely integrated with the Teldat management for SD-WAN networks, be.SDx Corp, so it allows to configure and monitor the device easy and centrally
Multiple WAN support	SDE-10K supports simultaneously different type of network access as MPLS and/or Internet broadband. Then, hybrid networks are supported with minimum cost.
Multiple deployment scenarios	Can be used as a concentrator for companies with low to medium throughput rates as well as for branch offices with high performance requirements.
Several platforms	SDE can be deployed over x86 servers, supporting up to 1 Gbps in one server. Several models are certified and tested to cover customer requirements.

HARDWARE TECHNICAL FEATURES

Performance (SD-WAN encrypted traffic)

1100 Mbps (IMIX)
1000 Tunnels

Network Ethernet connections

4 x 1 Gbps (Up to 2 Gbps)
1 x 1 dedicated IPMI LAN

Certified servers

Supermicro (8 cores, 4GB RAM, SSD 120GB HD)

SOFTWARE TECHNICAL FEATURES

Management

Centrally managed using Teldat SD-WAN management platform
Easy device onboarding and config. from CNM templates
Operating system lifecycle management from management platform

Application routing

Application Based Routing, using IPSLA to monitor the network status.
Network information to take traffic decisions: delay, jitter, loss
Deep Packet Inspection (DPI) for application routing up to level 7

SD-WAN Quality of Service

Four priority levels (Real-Time, High, Medium and Low)
Per application guaranteed Bw allocation in case of congestion
Per application rate limit

Network Architecture

Network overlay based on DMVPN with standard IPSec and AES encryption
Internet and MPLS WAN access and control in each device
BGP/OSPF routing protocols supported for internal LAN routing

Security

DMVPN based overlay to isolated customer network from WAN networks
VRFs in each WAN and LAN interface.
Standard IPSec with state of the art encryption

High Availability

Cluster based architecture in active-active mode

ADDITIONAL TECHNICAL FEATURES

Teldat Reverse Traffic Steering (TRTS)

Cutting edge solution to minimize tunnels number in SD-WAN scenarios

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