

Teldat SDE-10K-Series

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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.

Interfaces

Destacar

- 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



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.

Key Features

- **Bandwidth support for medium corporate datacenters** SDE-10K is designed to be installed in large enterprise datacenters, it supports the most common bandwidth requirements with 1100mbps encrypted throughput(IMIX) with 1000 tunnels.
- **High availability support in active-active scenario** SDE-10K can be deployed in a high available architecture (active-active), and in case one of the appliances crashes, the other one can handle all the traffic.
- **Trusted x86 hardware for datacenters** SDE-10K is designed for high performance, high reliable services, using hardware based on well known x86 server platforms that guarantee the stability.
- **Easy onboarding based on ZTP mechanism** SDE-10K provides the automatic provisioning and configuration without technical intervention in a Teldat SD-WAN network.
- **Integrated management with SD-WAN Controller** SDE-10K is closely integrated with be.SDx Corp, the Teldat management system for SD-WAN networks, so it allows to configure and monitor the device easy and centrally.
- **Horizontal scalability** In case of network traffic increase additional devices can be added easily, Teldat Controller will coordinate them without user intervention.
- **4 x 2 Gbps ports** Hybrid networks can be solved using a single SDE-10K, providing this way a cost effective solution for medium network size.

CARACTERÍSTICA TÉCNICA DEL HARDWARE

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)

CARACTERÍSTICA TÉCNICA DEL SOFTWARE

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

CARACTERÍSTICA TÉCNICAS ADICIONALES

Teldat Reverse Traffic Steering (TRTS)

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



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, cyberse-curity 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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