

# Teldat SDE-20K Series

## Teldat SDE-20K Series

### Introduction

SDE-20K series are a set of devices to build next generation SD-WAN networks. These devices are the datacenter edge device solution for high demanding requirements scenarios, providing a turn-key solution encompassing both hardware and software, seamless integrated with Teldat SD-WAN Controller and able to be easily onboarded with Zero Touch Provisioning (ZTP) mechanism.

The main role of this device is as SD-WAN concentrator, supporting overlay networks from remote branches connecting to the datacenter. Any network size is supported as it scales up to 40 Gbps per device and several devices can work together in cluster mode.

### Interfaces

20K, 22K and 24K models (in EoS):	4x10 Gbps (SFP+)
20K-R2, 22K-R2, 24K-R2, 24K-R3 models:	4x25 Gbps (SFP28) + 2x1 Gbps (RJ45)
28K and 28KS models:	6x100 Gbps (QSFP28) + 2x1 Gbps (RJ45)
Additional out-of-band management:	1 x Dedicated ethernet RJ45
Keyboard and VGA:	Yes
Others:	USB and Serial port (not used)

### Destacar

- Integrated SD-WAN management
- High performance encryption services
- Professional and advanced O.S.
- Integrated Redundant Power Supply
- Based on trusted x86 architecture
- 19-inch housing



## Competitive Advantage

SD-WAN focus	SDE-20K is closely integrated with CNM, the Teldat management system for SD-WAN networks, so it allows to configure and monitor the device easy and centrally.
Multiple WAN support	SDE-20K supports simultaneously different type of network access as MPLS and/or Internet broadband. Then, hybrid networks are supported with minimum cost.
High bandwidth	SDE-20K is designed to be installed in large enterprise datacenters, it supports the most demanding bandwidth scenarios
Several platforms	Starting from 4 Gbps and up to 40 Gbps, several models available to fit any customer network size.

## Key Features

- **Large bandwidth support for corporate datacenters** SDE-20K is designed to be installed in large enterprise datacenters, it supports the most demanding bandwidth scenarios (4Gbps, 10Gbps, 20Gbps and 40 Gbps).
- **High availability support in active-active scenario** SDE-20K 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-20K is designed for high performance, high reliable services, using hardware based on well known x86 that guarantee the stability.
- **Easy onboarding based on ZTP mechanism** SDE-20K provides the automatic provisioning and configuration without technical intervention in a Teldat SD-WAN network.
- **Integrated management with SD-WAN Controller** SDE-20K is closely integrated with Cloud NetManager, 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.
- **10 Gbps and 100 Gbps ports** Hybrid networks can be solved using a single SDE-20K, providing this way a cost effective solution for any network size.

## CARACTERÍSTICA TÉCNICA DEL HARDWARE

### Performance as SD-WAN concentrador (IPSec encrypted traffic)

20K (EoS) and 20K-R2 models: Up to 4 Gbps  
22K (EoS) and 22K-R2 models: Up to 10 Gbps  
24K (EoS), 24K-R2 and 24K-R3 models: Up to 20 Gbps

### Optical ethernet connections

20K, 22K and 24K models (all these models are in EoS): 4x10Gbps (SFP+)  
20K-R2, 22K-R, 24K-R2 and 24K-R3 models: 4x25Gbps (SFP28) + 2x1 Gbps (RJ45)  
28K and 28KS models: 6x100Gbps (QSFP28) + 2x1Gbps (RJ45)

### Dimensions

1U (68.3x48.2x4.28cm)

### Redundant power supply

Duplicate power supply in all models

### Suggested use case

SD-WAN concentrator (except 28KS model that can be used as SD-WAN Spoke)

## 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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