SDW102/SDW102-L

SD-WAN EDGE CPE





INTRODUCTION

Edgecore Networks SD-WAN solution is to address those networking issues and able to provide robust, secure, adaptive network services on demand. By enhancing or substituting the traditional branch networking devices with virtualization appliances that can be programmed to understand the nature of traffic it is handling and dynamically adjust accordingly, latency-sensitive traffic for applications such as video and voice, need to be continuously monitored and prioritized, which requires such things as application recognition, traffic re- routing, load-balancing, bandwidth-control, automation fail-over, that MPLS connections simply cannot provide.

SDW102 is stable for SOHOs, chain stores, and SMEs application. It supports Wired WAN & LAN and offers optional 4G LTE Cat6 with SIM slot for application. SDW102 can be managed by SDWAN software controller and allow users to install software controller in the data center or server. Besides, SDW102 can be adjusted as Hub or Spoke via software. On top of traffic monitoring, Edgecore Networks centralized controller can be used to set policies and prioritize traffic, in which the SD-WAN takes into account these policies and the network bandwidth to route traffic accordingly, ensuring the application performances expected.

HIGHLIGHTS

Central Management

Provide unified web GUI that System Administrator can monitor and auto-adjust all remote (branch) networks with real-time feedback from premises and deploy the preconfigured network path to remote sites.

Traffic Steering

Allow dedicated WAN interface assignment to designated services such as Mail Service on WAN1 while VoIP/VPN on WAN2.

Adaptive WAN Selection

Provide multiple parallel connections as to provide granular load-balancing between them, and even fail-over to new connection should there be a significant drop over the threshold value set forth on Central Management in concurrent bandwidth.

Multi-Tenant

With adoption of our management system, you—as a System Administrator--have the option to sublet the services to other partners/tenants, as a source of revenue, while assuring each tenant's data is isolated and remains invisible to other tenants. In addition, cost of the deployment can be greatly reduced through economies of scale, with minimum effort on administration workload such as account assignment and database maintenance.

Bandwidth Control

Provide traffic control on sensitive applications through the use of QoS, and rate-limit by interface or application type to ensure the latency-sensitive applications receive abundant resource required.

Network Quality Assurance

Provide continuously monitored real-time network flow on Central Management for adaptive network re-route for optimized network quality.

Packet Analysis

Inspect the nature of the network traffic, allowing control actions such as rate-limiting, and top 5 statistical ranking analysis of the access behavior of a node in the network including host, application and accumulated packet size.

Zero Touch Deployment

Fully automated provisioning from Central Management with pre-configured network setup to the edge devices at remote sites without user intervention can improve reliability, minimize bring-up costs while maintaining efficiency and flexibility on deployment.

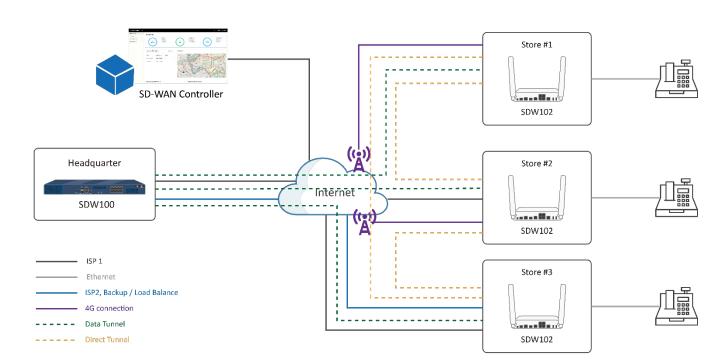
OTA Update

One click away to perform devices upgrade.

Optional Module

SDW102-L: 4G LTE Cat6 with SIM slot

APPLICATION



SPECIFICATIONS

HARDWARE	
Form Factor	• Desktop
Dimensions	• 23 cm x 17.6 cm x 4.4 cm (W x D x H)
Weight	• 670 g
Power	• DC Input:12V/3.0A
Interface	 WAN: 2 x 10/100/1000Base-T Ethernet or 2 x SFP LAN: 4 x 10/100/1000Base-T Ethernet Console: 1 x RJ-45 USB ports: 2 x USB 3.0 RP-SMA Dipole Antenna: Option for 4G LTE
Environmental Conditions	 Operating Temperature: 0°C (32°F) to 40°C (104°F) Operating Humidity: 10% to 90% non-condensing
Optional Module	4G LTE Cat6 with SIM slot with 4dBi RP-SMA Omni directional antenna
CAPACITY	
Bandwidth	Tunnel Capability: up to 300 MbpsThroughput per Tunnel: up to 180 Mbps
Concurrent Users	• 100
MANAGEMENT	
SD-WAN Orchestrator	 X86 Appliance-based Cloud Platform Edgecore ecCLOUD*

*ecCLOUD will be supported in 2023, Q1

	NETWORKS
Software	
Management	 Central Management Zero Touch Deployment Auto Discovery Auto Provisioning OTA Firmware Upgrade TLS Encryption Keep Alive Detection Account Management NTP Email Alert Event log Reporting Tool Disaster Recovery Multi-Tenant
Routing	 Network Address Translation (NAT) WAN type: Static IP, DHCP, PPPoE DHCP Server/ Client Static Route Assignment Dynamic Route OSPF/BGP Virtual Server/ 1 to 1 NAT Policy-based Routing
Security	 Firewall ACL by IP/ Protocol/ Application Tunnel Isolation Management IP TACACS+ URL Filter DDoS Mitigation
VLAN	 Configure the VLAN for Each Port Support DHCP Server for Different VLAN PPPOE VLAN tag over WAN VLAN passthrough from WAN to LAN
QoS	 Bandwidth management Priority management Session control by IP/ Protocol/ Application
VPN	 Split Tunnel (Internet access from local) Complete Tunnel (Internet access to remote) Site to Site Site to Client (Work From Home) Hub-Spoke/P2P Mesh
Adaptive WAN Selection	 Multiple WAN Auto Failover Threshold Configurable Internet Load balance Traffic Steering Application Aware WAN Optimization
Packet Analysis	 Traffic Flow History (Port, IP, Applications, Volume) Top Application by Volume Top Source by Volume
Monitoring	 Manage Status VPN Connection Status System Information Traffic Statistics Tunnel Quality WAN Quality
Management Interface	SSH(v2), HTTP/ HTTPS, Web-based & Restful API