

# QI-ANXIN Software-Defined Wide Area Network (SD-WAN)

## Product Overview

Security SD-WAN provides wide area security networking solution for users in multi-branch, data center interconnection, hybrid cloud and other scenarios with Network as a Service (NaaS) and Security as a Service (SaaS). Through flexible, convenient and on-demand network connectivity and elastic deployment security capability, it makes network more secure and security more intelligent. Secure SD-WAN consists of two parts, secure network routing gateway and secure network control platform. Security gateways are deployed in enterprise headquarters, data centers or branches to provide networking and security protection functions for enterprise interconnection. The control platform is centrally deployed in the enterprise headquarters or data center, and is responsible for the unified control and management of the security gateway.

## Product Functions

Functions	Description
Zero-configuration	Wireless online, email online, deployment wizard online, batch online
Automatic networking	One click to send networking policy to build SD-WAN network automatically.
Intelligent routing	Detection of link quality, selection of the optimal path, automatic switching in case of failure
Service Assurance	Dynamic allocation of bandwidth, key services somewhat to protect bandwidth resources
Advanced Security	Application-based access control, attack protection, intrusion prevention, virus protection, URL filtering, threat intelligence collaboration.
Unified O&M	Unified configuration, unified management and visualized operation and maintenance of the whole network gateway

## Architecture



## Product Features

### Secure network composition

Secure SD-WAN adopts PrivateEX enhanced isolation technology to set up an on-demand network for enterprise customers and establish a business-isolated and secure encrypted connection between enterprise headquarters and stores to ensure the security and privacy of data transmission.

### Fast deployment with zero configuration

The security gateway supports automatic registration of the security gateway and acquisition of network configuration and security policy configuration from the control platform through wireless on line, email on line, deployment wizard on line, and batch on line to achieve minute on line. It greatly shortens the time of equipment on line, reduces the complexity of store opening business and saves the cost of operation and maintenance implementation of enterprises.

### Wide Area Export Integration

Secure SD-WAN supports unified integration of multiple wide area (WAN) egresses, such as Internet, 4G, MPLS, MSTP, etc. When one of the WAN egresses fails, it can be switched to other normal WAN egresses to ensure that the continuous service of the service is not affected.

### Intelligent Path Preferred Selection

Secure SD-WAN supports telemetry technology to monitor the end-to-end service quality of the entire enterprise WAN through the control platform, and supports intelligent path selection based on multiple dimensions such as hop count, latency and bandwidth based on WKSP technology to achieve application-based path preference and quality assurance. Support remote upgrade of software installation package.

### Visualized Centralized Control

It supports automated operation and maintenance, network scheduling, security scheduling, service management, threat management, and on-demand customization of security capabilities for security gateways across the network. It supports centralized management and display of network status, service data and network quality across the network, and supports one-click jump to security gateway management.

### Comprehensive Security Protection

Secure SD-WAN supports various types of security protection, such as vulnerability protection, anti-DDoS protection, virus protection and Internet URL filtering policy protection, etc. At the same time, through the systematic security guarantee of data encryption transmission, unified identity authentication, centralized control and authority, and deep threat identification, it provides a comprehensive security protection enterprise networking solution.

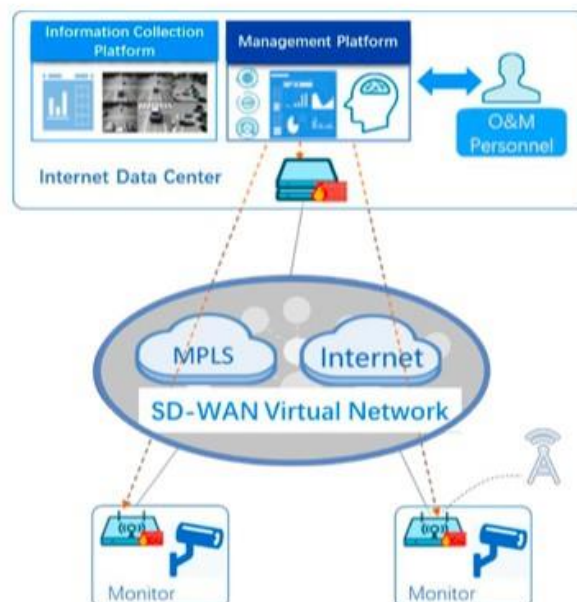
## Application

### Multi-branch enterprise rapid networking

Enterprise branches need to achieve fast and secure interconnection with the headquarters based on the Internet. Security gateways can be deployed in the headquarters and branches, and through the local self-built or cloud-based SAAS mode security network control platform, the network configuration and link management can be unified to achieve rapid networking of multi-branch enterprises.

### Enterprise network interconnection with cloud data center

With the development of cloud computing, enterprise IT systems are migrating from local data centers to public clouds, and enterprise headquarters and branches, need to establish secure access tunnels with public cloud data centers to achieve reliable business access. Security gateway hardware can be deployed in enterprise headquarters and branches, while virtualized security gateways can be deployed in cloud data centers, and unified network configuration, operation, and maintenance management can be realized through the security network control platform deployed in headquarters.



### IoT data transmission

With the widespread use of IoT technology, environmental monitoring and other scenarios require the data generated by the operation of IoT devices to be transmitted back to a unified monitoring or analysis platform in real time. It can be deployed at the access point of the IoT devices that need to be networked, using its plug-and-play and 4G access characteristics to achieve network access in an unattended environment, and through the security network control center to achieve network monitoring, management.

## Hardware Specifications

		SSDW-100-A5T1C	SSDW-800-A8T2S	SSDW-2000
<b>WiFi/4G Support</b>		Yes	No	No
<b>Throughput Metrics</b>	Basic Security Throughput	2G	3G	22G
	Advanced Security Throughput	N/A	220M	6G
	New Connections (Maximum)	15000	19000	260000
	Concurrent Connections (Maximum)	100000.00%	1000000	4000000
<b>Tunnel Performance Metrics</b>	IPSec Tunnel Throughput	300M	500M	2.4G
	IPSec Tunnels (Maximum)	1000	3000	10000
	SSLVPN Concurrency (Maximum)	50	200	1000
<b>Interface</b>	Standard Network Interface	5T1Combo	8T2S	6T
	Expansion Slots	N/A	N/A	2
	Expansion Slots Type	N/A	N/A	4X/2X/8S/8T/4T4S/4S/4T/2T2S/2T/2S
	Other Interfaces	1USB+1Console	1USB+1Console	2USB+1Console
<b>Other</b>	Optional Storage Module Capacity	N/A	N/A	128G SSD
	Dimension (L*W*H, mm)	240*182*28	330*426*44	560*440*89