



Sangfor Intelligent Edge Router (SIER)

- ✓ Simplify deployment and operations by freeing up 80% of IT resources
- ✓ Increase business availability & productivity by several times
- ✓ Three-dimensional Security of User, Network and Data
- ✓ Work Efficiency Improved by 3 to 10 times
- ✓ Integrate multiple functions and minimize hardware costs by 50%



SIER INFORMATION

The rapid development of Internet, traffic and applications is requiring many companies to commit to digital transformation in an effort to remain competitive in their respective industries. Many companies are also choosing to open new branches to quickly seize market shares. A new solution is needed to support digital transformation and cater to future network needs.

Sangfor Intelligent Edge Router (SIER) is an important component of Sangfor SD-WAN, integrating zero touch provisioning, centralized management, intelligent path selection, user behavior, bandwidth management, WIFI, and 3G and 4G in a single solution, simplifying operation and management, improving business availability and user experience, and reducing hardware and bandwidth costs.



SIER HIGHLIGHTS



Simplicity

Deployment, management and operation are big pain points for enterprises with many branches, as they often struggle with budget, skilled IT administrators and time. Sangfor SIER simplifies all essential tasks, eliminating stress over these issues.

01

Sangfor zero-touch deployment capabilities through SIER enable quick installation, in just minutes with just a few plugs and cables, by any employee, eliminating the need for a skilled IT engineer. All configurations ongoing management are handled within the Sangfor Central Manager (CM), which IT managers can use to get full network visualization for all branches, including business availability, path selection status, bandwidth usage, and user behavior.

Intelligence

In a departure from more traditional routers, Sangfor SIER provides link quality awareness, with all WAN links having a resource pool and automatically detecting links based on QoE (latency, packets loss, jitter).

It also supports bonding of all WAN link bandwidth for operations with high bandwidth demands, and supports critical app traffic by always running them in the optimal link with imperceptible fail-over, greatly improving business availability.

02

Optimization

To guarantee bandwidth for core business and improve user work efficiency, Sangfor built 2 engines to provide a rich application database with enhanced application recognizability for path selection and bandwidth management.

Sangfor's engines provide advanced automatic FEC technology, making smooth video conferencing possible and improving VOIP and application speed by 3-10 times in a high packet loss network.

03

Security

Broadband replaces MPLS to save bandwidth costs and provides more bandwidth use, a significant trend for most enterprise. Yet, with internet dangers from viruses, online media, games and data leakage issues, Sangfor SIER was created to provide a rich application database for granular control, Using AI based cloud security analysis platform Sangfor Neural-X for web filtering to keep user away from virus, malware, phishing, ransomware website. Sangfor SIER also provides end to end data encryption with AES-256 algorithms, protecting data transmission security.

04

SIER SCENARIOS

Large scale, small footprint network



Use Cases: Retail chain store, logistics, real-estate or gas station

- Simplify branch O&M
- Branch network visualization
- Integrated WIFI/4G/Firewall/VPN reduces hardware costs

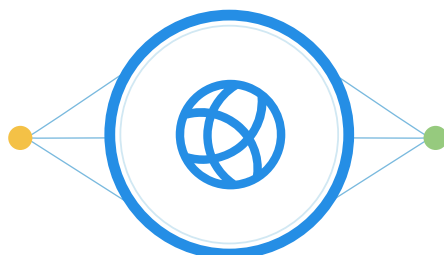
Small office & production network



Use Cases: Small government offices and enterprise mini-branch

- User behavior and bandwidth control
- Office applications and video conferencing optimization
- Guests WIFI and network isolation

Hybrid WAN Network



Use Cases: All Industries

- Internet broadband replaces all or part of MPLS to reduce WAN investment and increase bandwidth
- Multi-WANs improve business availability



SIER Datasheet

Model	SDW-R1080	SDW-R1080-WIFI	SDW-R1080-PRO	SDW-R1080-LTE
VPN Throughput	100Mbps	100Mbps	100Mbps	100Mbps
Firewall Throughput	300Mbps	300Mbps	300Mbps	300Mbps
Network Interface	5*GbE	5*GbE	5*GbE	5*GbE
Max. WAN Interface	4	4	4	4
Integrated LTE	N/A	N/A	1* Embedded LTE	2 * Embedded LTE
Integrated WIFI	N/A	2.4GHz/5GHz	2.4GHz/5GHz	N/A
Max. WIFI User	N/A	30	30	N/A
System Dimensions (mm)	180*110*28	220*110*28	220*117*28	220*117*28
Gross Weight	1.3KG	1.4KG	1.6KG	1.6KG
Temperature Range	0℃~40℃	0℃~40℃	0℃~40℃	0℃~40℃
Relative Humidity	5%~95%	5%~95%	5%~95%	5%~95%
Power [Watt] (Typical)	10W	12W	15W	15W

SIER Feature List

Deployment	Method:Email deployment Mode: Gateway mode, Single arm mode
Network Services	Self-defined interface attributes, SNAT, DNAT, DNS, DHCP client, DHCP server, VLAN trunk
Routing	Static routes, RIP, BGP, OSPF
Multi-WAN Policy	Preferred link,Link load balancing (session level)
SD-WAN Path Selection	Automatic link detection based on QoE (latency, packet loss, jitter),Preferred path, optimal path, path selection based on bandwidth ratio, VPN tunnel bonding
Optimization	<ul style="list-style-type: none"> - Accurately recognize applications based on DPI database and overlay - Automatic FEC for different applications in high packet loss network, Bandwidth management
Security	<ul style="list-style-type: none"> · Stateful firewall, Anti-Dos, application access control · AI-based URL filtering · Sangfor VPN - IPsec Protocol: AH, ESP - D-H Group: Group 1/2/5/14/15/16/17/18 - IPsec Authentication Algorithm: MD5, SHA1, SHA2-256, SHA2-384, SHA2-512 - IPsec Encryption Algorithm: DES, 3DES, AES-128, AES-192, AES-256 Authentication:802.1X, MAC, Radius, CA
Management	Sangfor Central Manager, Syslog
Embedded LTE Modem	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B38/B39/B40/B41 TD-SCDMA: B34/B39 WCDMA: B1/B5/B8 GSM: B3/B8

SANGFOR SIER (Intelligent Edge Router)

SANGFOR INTERNATIONAL OFFICES

SANGFOR SINGAPORE

8 Burn Road # 04-09, Trivex,
Singapore (369977)
Tel: (+65) 6276 9133

SANGFOR HONG KONG (CHINA)

Unit 04, 6/F, Greenfield Tower, Concordia Plaza, No.1 Science
Museum Road, Tsim Sha Tsui East, Kowloon, Hong Kong
Tel: (+852) 3427 9160

SANGFOR INDONESIA

MD Place 3rd Floor, Jl Setiabudi No.7, Jakarta Selatan
12910, Indonesia
Tel: (+62) 21 2966 9283

SANGFOR MALAYSIA

No. 47-10 The Boulevard Offices, Mid Valley City, Lingkaran
Syed Putra, 59200 Kuala Lumpur, Malaysia
Tel: (+60) 3 2201 0192

SANGFOR THAILAND

6th Floor, 518/5 Maneeya Center Building, Ploenchit Road,
Lumpini, Patumwan, Bangkok, 10330 Thailand
Tel: (+66) 22517700

SANGFOR PHILIPPINES

7A, OPL Building, 100 Don Carlos Palanca, Legazpi, Makati,
122 Metro, Manila, Philippines.
Tel: +63(0) 9175081244 / +63(0) 9171179346

SANGFOR VIETNAM

OTX2-0327 Sunrise City, 27 Nguyen Huu Tho,
Tan Hung Ward, Dist. 7, HCMC, Vietnam.
Tel: (+84) 28 62700133

SANGFOR SOUTH KOREA

Floor 17, Room 1703, Yuwon bldg. 116, Seosomun-ro,
Jung-gu, Seoul, Republic of Korea
Tel: (+82) 2 6261 0999

SANGFOR EMEA

C-80 (C-Wing), Dubai Silicon Oasis HQ Building, Dubai, UAE
Tel: +971-52-9606471

SANGFOR PAKISTAN

D203, Navy Housing Scheme, ZamZamma, Karachi, Pakistan
Tel: +92 3142288929

SANGFOR ITALY

Sede Legale ed Operativa via E. Berlinguer, 9 20834 Nova
Milanese MB Italia
Tel: +393400616767

SANGFOR USA

46721 Fremont Blvd, Fremont, CA 94538, USA
Tel: +1 (510) 573-0715

AVAILABLE SOLUTIONS

IAM

Simplify User & Network Management

NGAF

Smarter Security Powered By AI

Endpoint Secure

The Future of Endpoint Security

Cyber Command

Powerful Intelligent Threat and Detection Platform

SD-WAN

Boost Your Branch Business With Sangfor

WANO

Enjoy a LAN Speed on your WAN

HCI

Driving Hyperconvergence to Fully Converged

aCLOUD

Enterprise Cloud Built on HCI

VDI

Ultimate User Experience that Beats PC

aBOS

The World First NFV Converged Gateway

CM

Centralized Management Platform

SIER

Sangfor Intelligent Edge Router



www.sangfor.com

Sales : sales@sangfor.com

Marketing : marketing@sangfor.com

Global Service Center : +60 12711 7129 (or 7511)

Our Social Networks :



<https://twitter.com/SANGFOR>



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