



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).

02

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.

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.

03

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.

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

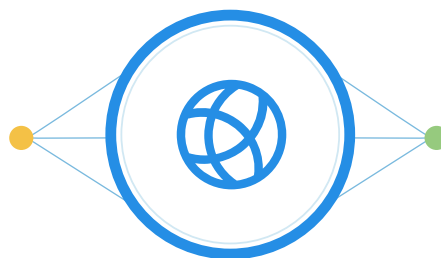
Small office & production network



Use Cases: Small government offices and enterprise mini-branch

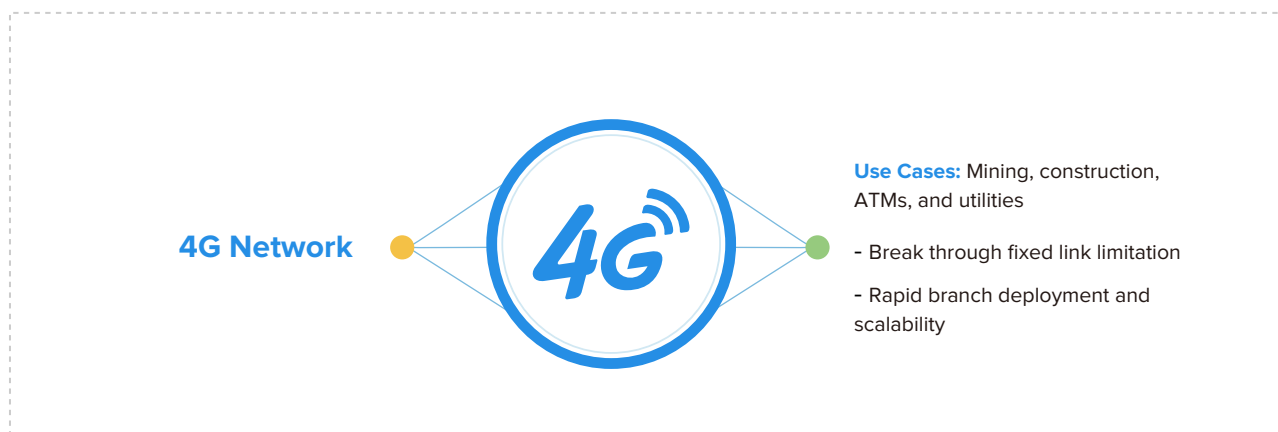
- User behavior and bandwidth control
- Office applications and video conferencing optimization
- Guests WIFI and network isolation

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
VPN Throughput	100Mbps	100Mbps	100Mbps
Firewall Throughput	300Mbps	300Mbps	300Mbps
Network Interface	5*GbE	5*GbE	5*GbE
Max. WAN Interface	4	4	4
Integrated LTE	N/A	N/A	1* Embedded LTE
Integrated WIFI	N/A	2.4GHz/5GHz	2.4GHz/5GHz
Max. WIFI User	N/A	30	30
System Dimensions (mm)	220*110*28	220*110*28	220*110*28
Gross Weight	1.3KG	1.4KG	1.6KG
Temperature Range	0℃~45℃	0℃~45℃	0℃~45℃
Relative Humidity	5%~90%	5%~90%	5%~90%
Power [Watt] (Typical)	10W	10W	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	- Accurately recognize applications based on DPI database and overlay - Advanced FEC Jet engine for different applications in high packet loss network -Application level bandwidth management
Security	<ul style="list-style-type: none"> • Stateful firewall, Anti-Dos, • Application-level bandwidth management, 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

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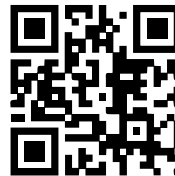
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AVAILABLE SOLUTIONS

IAG	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
HCI	Driving Hyperconvergence to Fully Converged
VDI	Ultimate User Experience that Beats PC
SD-WAN	Boost Your Branch Business With Sangfor
SIER	Simplify & Intelligence Your Branch Network
Access	Cloud-based SASE for Branch Offices & Remote Users
WANO	Enjoy a LAN Speed on your WAN



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