



## SANGFOR® WAN Optimization Product Features

Function	Description
<b>Rapidity</b>	
<b>Transmission protocol optimization</b>	Adaptive TCP proxy and HTP transmission protocol in high-latency, high-packet-loss network environments;
<b>Byte-cache technology</b>	Supports multi-disk, bi-directional and fragment-packet acceleration;
<b>File cache</b>	Apply file cache function to cache the whole files and greatly reduce transmission traffic for network neighborhood application;
<b>Application proxy</b>	Supports proxy for protocols of MAPI, HTTP/HTTPS, CIFS, Oracle EBS, Citrix, RDP, SMTP, offering boosted performance to a wide range of business applications such as Exchange, SharePoint, ERP, CRM, Lotus Notes, Backup, SAP, Disaster Recovery, FTP and so on;
<b>Compression</b>	IP compression, providing hardware-based GZIP and LZO high-speed stream compression algorithm;
<b>WebPush technologies</b>	Via WebPush function, conducts intelligent analysis of HTML request pages, to self-define settings for pre-fetching cache elements, and to improve Web application's accessing speed;
<b>Flash-link</b>	Flash link technology improves data transmission speed and addresses effects of high-packet-loss;
<b>Intelligent QoS function</b>	Sets QoS policy based on application, direction, source address, destination address and effective time, and supports QoS allocation based on lines;
<b>Bandwidth management</b>	Integrated with SANGFOR IAM bandwidth management feature: application identification, traffic shaping, etc.;

### Scalability

<b>VPN module</b>	Built-in IPsec VPN module;
<b>Built-in firewall</b>	Built-in SPI firewall thwarts a range of security threats to gateway reliability, including DoS attacks, ARP spoofing, etc.;
<b>Portable Accelerator</b>	Supports acceleration effects via installation of PACC software on client PCs;

Function	Description
<b>Usability</b>	
<b>Configuration</b>	Supports SNMP, the standard network administration protocol; Configuration wizards speed up user deployment; Auto identification of protocols based on contents, simplifying application acceleration configuration;
<b>Management authorization</b>	Functionality managed via various levels of access privileges, including Administrators and Users;
<b>Logging and reporting</b>	Provides visibility into a wide range of system information, including logs for alarms, errors and debugging. Allows use of stand-alone log servers, examination of real-time and historical traffic, analysis of accelerated and non-accelerated traffic and sessions, and report generation and export;
<b>Backup function</b>	Data resilience via local and remote backup and recovery; Logs are backed up as files;
<b>Bypass</b>	Supports hardware Bypass;
<b>Transparent acceleration</b>	Restoring the original connection information after acceleration;
<b>Easy deployment</b>	Supports import of WCCP V2 traffic, supports import of strategy routing PBR traffics, support CDP, and supports import of four-layer switch traffic; Default two directions acceleration on the whole network segment;

### Security

<b>Tunnel encryption</b>	Built-in AES 128-bit encryption algorithm; enhance other encryption algorithms, guaranteeing data security;
<b>Data integrity</b>	Uses MD5 and SHA algorithms to guarantee data integrity;
<b>Enterprise level firewall</b>	Built-in Stateful Packet Inspection enterprise-level firewall provides packet filtering, URL filtering, access monitoring, DHCP services and other security functions;
<b>External and internal DOS attack resistance</b>	Effectively prevents internal and external DOS attack.

## SANGFOR® WAN Optimization Product Family

### Model Specifications

Model	Profile	Single HD Capacity	RAM	Optimized Bandwidth	Max Traffic Shaping Bandwidth	Optimized TCP Connection	Optimized Sites or Mobiles
S5000	Mini/1U	160GB/250GB	512M	6 Mbps	20 Mbps	300	5
M5000	Mini/1U	160GB/250GB	512M	15 Mbps	45 Mbps	1,500	10
M5100	1U	250GB	1G	25 Mbps	55 Mbps	3,000	32
M5400	1U	250GB	2G	50 Mbps	80 Mbps	4,000	100
M5500	2U	500GB	4G	60 Mbps	90 Mbps	5,000	300
M5600	2U	500GB	4G	80 Mbps	105 Mbps	8,000	500
M5800	2U	500GB	4G	100 Mbps	112 Mbps	8,000	500
M5900	2U	500GB	8G	150 Mbps	400 Mbps	15,000	1,000

### Power and Physical Specifications

Model	Dual Power Supplies	Rated Power	Temperature	Relative Humidity	System Dimensions (W×L×H)	System Weight
S5000 (Mini)	N/A	60W	0°C-40°C	5%~95% non-condensing	275x175x45 mm <sup>3</sup>	1.5 Kg
S5000 (1U)	N/A	60W	0°C-40°C	5%~95% non-condensing	440x300x50 mm <sup>3</sup>	4.0 Kg
M5000 (Mini)	N/A	60W	0°C-40°C	5%~95% non-condensing	275x175x45 mm <sup>3</sup>	1.5 Kg
M5000 (1U)	N/A	60W	0°C-40°C	5%~95% non-condensing	440x300x50 mm <sup>3</sup>	4.0 Kg
M5100	N/A	80W	0°C-40°C	5%~95% non-condensing	430x274.8x44.5 mm <sup>3</sup>	4.25 Kg
M5400	N/A	250W	0°C-40°C	5%~95% non-condensing	440x420x44.5 mm <sup>3</sup>	7.0 Kg
M5500	N/A	250W	0°C-40°C	5%~95% non-condensing	440x500x89 mm <sup>3</sup>	10.9 Kg
M5600	✓	350W	0°C-40°C	5%~95% non-condensing	440x435.4x88 mm <sup>3</sup>	18.0 Kg
M5800	✓	460W	0°C-40°C	5%~95% non-condensing	440x600x90 mm <sup>3</sup>	19.0 Kg
M5900	✓	460W	0°C-40°C	5%~95% non-condensing	440x600x90 mm <sup>3</sup>	20.0 Kg

### Network Interfaces

Model	Hardware Bypass (Copper)	10/100 Base-T			10/100/1000 Base-T			Other Interfaces		
		WAN	LAN	DMZ	WAN	LAN	DMZ	SFP	Serial Port	USB
S5000 (mini)	1 pair	N/A	N/A	N/A	2	1	1	N/A	RJ45×1	2
S5000 (1U)	1 pair	N/A	N/A	N/A	2	1	1	N/A	RJ45×1	2
M5000 (mini)	1 pair	N/A	N/A	N/A	2	1	1	N/A	RJ45×1	2
M5000 (1U)	1 pair	N/A	N/A	N/A	2	1	1	N/A	RJ45×1	2
M5100	1 pair	N/A	N/A	N/A	2	1	1	N/A	RJ45×1	2
M5400	1 pair	N/A	N/A	N/A	4	1	1	N/A	RJ45×2	N/A
M5500	1 pair	N/A	N/A	N/A	4	1	1	2	RJ45×2	N/A
M5600	3 pair	N/A	N/A	N/A	4	1	1	4	RJ45×1	1
M5800	3 pair	N/A	N/A	N/A	4	1	1	4	RJ45×1	1
M5900	2 pair	N/A	N/A	N/A	2	1	1	4	RJ45×1	2

### Mobile Client Requirement

WANO Mobile System Requirements		WANO Mobile Software Specification	
Operating System	Windows 2000, XP, 2003, Vista, Windows 7 (32 bit)	Concurrent Clients per WACC	1~1000
CPU	Celeron 1.5GHZ	VPN Compatibility	Cisco, Juniper, Nortel, Microsoft, Open VPN
Memory	256M		
Disk Space	2GB		