

Quantum Spark 2500 Series for SMBs and Branches

Security Gateways



YOU DESERVE THE BEST SECURITY



Top Security Effectiveness

Check Point has been ranked #1 for the third consecutive year, achieving a 99.9% malware block rate, 99.7% phishing prevention and 98% high and critical exploit prevention in the

[**Miercom Hybrid Mesh Firewall Benchmark 2025**](#)

Named a Leader by Top Analyst Firms

[**Forrester Wave™ for Enterprise Firewalls 2024**](#)

Check Point Recognized as a Leader and Outperformer for Enterprise Firewalls

[**GigaOm Radar for Enterprise Firewalls 2025**](#)

Supercharge your network security with the Quantum Spark 2500 gateway series of next generation firewalls designed for today's fast-paced SMBs and branches. Experience lightning-fast threat prevention with throughputs up to 3,200 Mbps, and stay connected with the latest Wi-Fi 7, 5G cellular, and 10GbE LAN ports.



Enterprise Grade
Security



Fastest Connectivity
with Wi-Fi 7 and
5G Cellular



Unified Security
Management

Quantum Spark 2500 Performance Highlights

Model	Next Gen Firewall	Threat Prevention
QS 2530	1,200 Mbps	750 Mbps
QS 2550	1,600 Mbps	1,000 Mbps
QS 2560	3,750 Mbps	1,850 Mbps
QS 2570	5,000 Mbps	2,500 Mbps
QS 2580	9,000 Mbps	3,200 Mbps

Advanced security and uncompromising performance, built for SMBs & branches

Check Point Quantum Spark 2500 security gateway family delivers enterprise-grade security for small and medium businesses and enterprise branches in a series of simple and affordable, all-in-one security solutions. Models with the latest Wi-Fi 7 and embedded 5G modem provide fast and resilient connectivity.

Comprehensive and Industry-Leading Security

- Next Generation Firewall
- Site-to-Site and Remote Access VPN
- Application and Web Filtering
- Intrusion Prevention
- Antivirus and Anti-Bot
- Advanced DNS Security
- Sandboxing
- Zero-phishing (no agent required)

Quantum Spark Management

Managed Service Providers use Quantum Spark Management to provision up to thousands of gateways efficiently, reducing operational overhead. Interactive dashboards provide quick identification of security, connectivity and licensing issues across all customers. With proactive management alerts, MSP administrators can be notified of issues over SMS, email, MS Teams and more, enabling faster resolution.

Spark Management is included with the Spark appliance at no extra cost.

The Spark 2500 series can currently be managed by the Web UI and the Spark Management application on the Infinity Portal and WatchTower App. Smart-1 Cloud and Management Server are currently not supported.

5G cellular connectivity*

Get the latest 5G cellular standard, offering the highest throughputs, which can be used as a primary WAN connection (Fixed Wireless Access) or as a backup link. Supports Dual SIM Single Standby (DSSS) and backward compatibility to 4G/LTE networks.

Latest Wi-Fi 7

The Quantum Spark 2500 series support the latest Wi-Fi 7 standard with up to 30% added throughput over previous Wi-Fi 6 models as well as improved client density and reduced latency.

Highest Performance Threat Prevention

Thanks to R82 security and management technology, with the 2500 Series, you can inspect encrypted traffic and prevent even the most evasive attacks without impacting internal network performance. Achieve 3.2 Gbps of threat prevention throughput and 17.5 Gbps of firewall throughput.

*Roadmap

Quantum Spark 2530/2550



1. Power Switch
2. 6x RJ45 1GbE copper LAN ports
3. 1GbE copper/fiber WAN port
4. 1GbE copper/fiber DMZ port
5. USB 3.0 Type-A port
6. USB Type-C console port
7. Power Supply Connector
8. Wi-Fi Antennas (x2) for supported models:
CPAP-SG2530W-SNBT
CPAP-2550W-SNBT
CPAP-2550W5G-SNBT (roadmap)

Quantum Spark 2560/2570



1. Power Switch
2. 8x RJ45 1GbE copper LAN ports
3. 1GbE copper WAN port
4. 1GbE Fiber DMZ port
5. 2x 10GbE fiber LAN/WAN ports
6. USB 3.0 Type-A port
7. USB Type-C console port
8. Power Supply Connector (Dual)
9. Wi-Fi Antennas (x4) for supported models:
CPAP-SG2560W-SNBT
CPAP-2570W-SNBT
CPAP-2570W5G-SNBT (roadmap)

Quantum Spark 2580



1. 2x RJ45 2.5GbE copper LAN ports
2. 8x RJ45 1GbE copper LAN ports
3. 10GbE copper/fiber DMZ ports
4. 10GbE copper/fiber WAN ports
5. USB 3.0 Type-A port
6. RJ45 console port
7. USB Type-C console port
8. Factory Default switch
9. Reset switch
10. Dual power Supply Connector
11. Power Switch

Specifications

Test Conditions	2530	2550	2560	2570	2580			
Threat Prevention [Mbps]	750	1,000	1,850	2,500	3,200			
Next Generation Firewall [Mbps] ¹	1,200	1,600	3,750	5,000	9,000			
IPS Throughput [Mbps]	1,720	2,300	5,170	6,900	11,000			
Firewall Throughput [Mbps]	2,250	3,000	6,750	9,000	17,500			
RFC 3511, 2544, 2647, 1242 Performance (Lab)								
Firewall 1518 bytes UDP [Mbps]	3,000	4,000	11,600	15,500	20,000			
Firewall Latency Avg. (µSec)	90		30		24			
VPN AES-GCM 1452B [Mbps]	1,400		4,000		4,500			
Connections/Sec	16,000	20,000	53,000	62,000	72,000			
Concurrent Connections	1,000,000		2,000,000					
Software								
Security	Firewall, VPN, User Aware, QoS, Application Control, URLF, IPS, Anti-Bot, Antivirus, Anti-Spam, sandboxing							
Unicast, Multicast Routing and Clustering	OSPFv2, BGPv4 and 4++, RIP, PIM (SM, DM, SSM), IGMP, ClusterXL High Availability							
IPv6	local network and internet connections, dual stack tunneling IPv4 over IPv6 networks, prefix delegation							
Remote Access Users	100		200		1,000			
SD-WAN	Integrated SD-WAN network optimization and resilience							
VLAN's	Total physical and virtual (VLAN) interfaces per appliance: 1024 (single gateway)							
Link Aggregation	802.3ad passive and active link aggregation							
Layer 2	Layer 2 (transparent) and Layer 3 (routing) mode							
IPv6	NAT66, NAT64, NAT46 / CoreXL, SecureXL, HA with VRRPv3							
Management Options	Web UI, Spark Management application, Smart-1 Cloud & Management server are currently not supported							

Hardware	2530	2550	2560	2570	2580
WAN Port	1 x 1GbE RJ45/SFP		1 x 1GbE RJ45		1 x 1GbE RJ45/SFP 1 x 10GbE RJ45/SFP
DMZ Ports	1 x 1GbE RJ45/SFP		1 x 1GbE SFP		1 x 1GbE RJ45/SFP 1 x 10GbE RJ45/SFP
LAN Ports	6 x 1GbE RJ45		8 x 1GbE RJ45 and 2 x 10GbE SFP+		8 x 1GbE RJ45 2 x 2.5GbE RJ45
Wi-Fi & bands	Wi-Fi 7 2x2 2.4Ghz + 5Ghz		Wi-Fi 7 4X4 2.4Ghz + 5Ghz + 6Ghz		-
5G ² (optional)	No	Yes	No	Yes	No
SD Card Slot			Micro-SD slot		
Local Log Storage		-			512GB SSD
Dimensions					
Dimensions (W x D x H)	210 x 170 x 42 mm, 8.3 x 6.7 x 1.7 in.		210 x 170 x 42 mm, 8.3 x 6.7 x 1.7 in.		210 x 209x 42 mm, 8.3 x 8.3 x 1.7 in.
Weight	0.87 kg (1.9 lbs.)		0.87 kg (1.9 lbs.)		0.988 kg (2.178lbs.)
Environment					
Operating / Storage		0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)			
MTBF	Wired / Wi-Fi Models - 126 Years		Wired / Wi-Fi Models - 33 Years		Wired - 57 Years
Power Requirements					
AC Input		100 to 240VAC (47-63Hz)			
Dual Power	No		Available		
Power Supply Rating	12V/3.3A 40W power adapter (non-Wi-Fi)		12V/5A 60W power adapter (all Wi-Fi models)		
Power Consumption (Max)		26.01W (non-Wi-Fi); 31.28W (Wi-Fi); 35.5W (Wi-Fi-5G)			
Certifications					
Safety		CB IEC 62368-1, CE LVD EN62368-1, UL62368-1, ASNZS 62368.1			
Emissions		CE, FCC IC, VCCI, ASNZS ACMA			
Environmental		ROHS, REACH, WEEE, ISO14001			
Regulated Model	T90 (Wired), T90W (Wi-Fi)		T91 (Wired), T91W (Wi-Fi)		T92

¹ Includes Firewall, App Control and IPS with logging enabled

² Roadmap

Security Appliances	SKU
2530 Desktop form factor, 1x1GbE copper/SFP WAN port, 1x1GbE copper/SFP SFP port, 4x1GbE copper LAN ports.	CPAP-SG2530-SNBT
2530W Desktop form factor, 1x1GbE copper/SFP WAN port, 1x1GbE copper/SFP SFP port, 4x1GbE copper LAN ports, 802.11ax 2x2 MIMO Wi-Fi 7.	CPAP-SG2530W-SNBT
2550 Desktop form factor, 1x1GbE copper/SFP WAN port, 1x1GbE copper/SFP SFP port, 4x1GbE copper LAN ports.	CPAP-SG2550-SNBT
2550W Desktop form factor, 1x1GbE copper/SFP WAN port, 1x1GbE copper/SFP SFP port, 4x1GbE copper LAN ports, 802.11ax 2x2 MIMO Wi-Fi 7.	CPAP-SG2550W-SNBT
2550W Desktop form factor, 1x1GbE copper/SFP WAN port, 1x1GbE copper/SFP SFP port, 4x1GbE copper LAN ports, 802.11ax 2x2 MIMO Wi-Fi 7, 5G cellular	CPAP-SG2550-W-5G-SNBT
2560 Desktop form factor, 1x1GbE copper WAN port, 1x1GbE copper/SFP DMZ port, 8x1GbE copper LAN ports, 2x10GbE SFP+ LAN ports.	CPAP-SG2560-SNBT
2560 Desktop form factor, 1x1GbE copper WAN port, 1x1GbE copper/SFP DMZ port, 8x1GbE copper LAN ports, 2x10GbE SFP+ LAN ports, 802.11ax 4x4 MIMO Wi-Fi 7.	CPAP-SG2560W-SNBT
2570 Desktop form factor, 1x1GbE copper WAN port, 1x1GbE copper/SFP DMZ port, 8x1GbE copper LAN ports, 2x10GbE SFP+ LAN ports.	CPAP-SG2570-SNBT
2570 Desktop form factor, 1x1GbE copper WAN port, 1x1GbE copper/SFP DMZ port, 8x1GbE copper LAN ports, 2x10GbE SFP+ LAN ports, 802.11ax 4x4 MIMO Wi-Fi 7.	CPAP-SG2570W-SNBT
2570 Desktop form factor, 1x1GbE copper WAN port, 1x1GbE copper/SFP DMZ port, 8x1GbE copper LAN ports, 2x10GbE SFP+ LAN ports, 802.11ax 4x4 MIMO Wi-Fi 7, 5G cellular.	CPAP-SG2570-W-5G-SNBT
2580 half-sized rack mounted, 1x10GbE copper/SFP WAN port, 1x10GbE copper/SFP DMZ port, 8x1GbE and 2x2.5GbE copper LAN ports and Dual power supply.	CPAP-SG2580-SNBT

ACCESSORIES

Power Supplies	SKU
Replacement Power Supply for 2530, 2550 wired and Wi-Fi models	CPAC-2530/2550-PSU
Replacement Power Supply for 2550W5G, 2560, 2560W, 2570, 2570W, 2580, 3920, & 3950 models	CPAC-2550W5G/2580/3920/3950-PSU
Replacement Power Supply for 2570W5G models	CPAC-2570W5G-PSU

Rack Mounts	SKU
Rack Mount ears for 2530, 2550, 2560, 2570, 2580, 3920, 3950 models	CPAC-2500/3900-RM-EARS
Rack Mount shelf for Single/Dual for 2500/ 3600/ 3800 desktop appliances. The mount does not support Quantum Spark models with Wi-Fi	CPAP-2500/3900-RM-DUAL

Antennas	SKU
Replacement Wi-Fi and 5G antennas for 2530 and 2550 models. Contains four antennas (2+2)	CPAC-2550-ANTENNA
Replacement of 5G antennas for 2570 and 2590 models. Contains four antennas	CPAC-2570-ANTENNA

Transceivers	SKU
1GB Short Range Transceiver	CPAC-TR-1SX-D
1GB Long Range Transceiver	CPAC-TR-1LX-D
10GB Short Range Transceiver	CPAC-TR-10SR-D
10GB Long Range Transceiver	CPAC-TR-10LR-D

SUBSCRIPTION SERVICES

	NGFW	NGTP	SNBT (SandBlast)*
Application Control	✓	✓	✓
IPS	✓	✓	✓
URL Filtering		✓	✓
Anti-Bot		✓	✓
Anti-Virus		✓	✓
Anti-Spam		✓	✓
SandBlast Threat Emulation (sandboxing)			✓
Zero Phishing			✓
IoT Network Protection	IoT for SMB (Web UI and Spark Management) is included IoT for Enterprise (Smart1) requires an additional license		
SD-WAN Network Optimization**	SD-WAN for SMB (Web UI and Spark Management) is included SD-WAN for Enterprise (Smart1) requires an additional license		

*The first-year purchase includes the SNBT package. Security subscription renewals, NGFW, NGTP and SNBT are available for subsequent years.

**SD-WAN for Enterprise is pending availability of Central Management.

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