



Quantum Spark™ 1900, 2000 Firewalls

QUANTUM SPARK 1900, 2000 SECURITY GATEWAYS



Named Leader by Top Analyst Firms:
 Gartner® Firewall Magic Quadrant™
 Forrester Wave™: Enterprise Firewalls 2022

Top Security Effectiveness:
 Leader with 99.7% malware block rate in
 Miercom NGFW Security Benchmark 2023

AI ML powered Threat Prevention:
 Protect networks and users from zero-day,
 phishing, DNS, and ransomware attacks

High Port Density in a 1 RU Firewall:
 With 18 LAN switch ports and 4 10GbE
 SFP+ ports, organizations can consolidate
 networking in branch and SMB offices

Unified Management and Ops Efficiency:
 Increase protection and reduce TCO with a
 consolidated security architecture

**Industry's best security used by the world's
 largest enterprises, tailored to protect your
 SMB from cyberattacks.**

Quantum Spark 1900 and 2000 NGFWs are fast, high port density firewalls with integrated AI ML security to prevent new and novel threats. Integrated capabilities like SD-WAN and IoT security provides faster Internet connectivity, application performance, proven security, and maximum up-time with management made easy via an intuitive web interface.

SPARK 1900, 2000 HIGHLIGHTS

Next Gen Firewall	Threat Prevention	Interfaces
up to 10 Gbps	up to 6.5 Gbps	24 ports

Advanced security, uncompromising performance

The Check Point Quantum Spark 1900 and 2000 security gateways deliver enterprise-grade security in simple, affordable, all-in-one security solutions in a 1 Rack Unit (RU) form factor to protect small to mid-size business employees, networks, and data from cyber-theft. High threat prevention throughput and high port capacity with 16x1GbE, 2x2.5GbE and 4x10GbE network interfaces make these NGFWs ideal for larger branch and SMB networks.

Comprehensive, Industry-Leading Security

- Next Generation Firewall
- Site-to-Site, Remote Access VPN
- Application Control and Web Filtering
- Intrusion Prevention
- Antivirus and Anti-Bot
- Anti-Spam Email Security
- SandBlast Threat Emulation (sandboxing)
- Integrated SD-WAN network optimization



Part of the Quantum Cyber Security Family

R81 software for SMB increases performance and brings enterprise-grade security to small and midsized businesses. Centrally managed SMB gateways support: Unified access policy: firewall, application control, URLF

- Policy layers and sub-policies
- Acceleration of domain, dynamic and time objects
- Multicore VPN and VPN acceleration
- Smart Accel 30% performance improvement of low risk, high bandwidth apps

High Port Capacity for Large SMB Networks

The 1900 and 2000 have a 16 1GbE copper LAN switch, ideal for segmenting multiple networks by department or function. Two copper 2.5GbE ports and four fiber 10GbE SFP+ LAN ports are also available. In addition, the 1GbE copper or fiber WAN and DMZ ports offer connection flexibility. The DMZ can also be used as a second WAN port.



1900, 2000 Port Configuration

Specifications

	1900	2000
ENTERPRISE TESTING CONDITIONS		
Threat Prevention with Smart Accel*	5.2 Gbps	6.5 Gbps
Threat Prevention ¹	4 Gbps	5 Gbps
Next Generation Firewall ²	8 Gbps	10 Gbps
IPS Throughput	9 Gbps	11 Gbps
Firewall Throughput	20 Gbps	20 Gbps
RFC 3511, 2544, 2647, 1242 PERFORMANCE (LAB)		
Firewall 1518 Byte UDP Packets	40 Gbps	40 Gbps
VPN AES-128 Throughput	5 Gbps	6 Gbps
Connections per Second	90,000	100,000
Concurrent Connections	4,200,000	4,200,000
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	
Mobile Access License (Users)	500 remote SNX or Mobile VPN client users	
HARDWARE		
WAN Port	1x 10/100/1000Base-T RJ-45 port	
DMZ Port	1x 10/100/1000Base-T RJ-45 port	
LAN 1 GbE and 2.5 GbE copper Ports	2x 2.5GbE Base-T RJ-45 plus 16x 10/100/1000Base-T RJ-45 ports	
LAN 10 GbE fiber Ports	4x10GbE SFP+ ports	
Console Port	1x USB-C or RJ45	
USB Ports	2x USB 3.0	
CPUs/physical cores/virtual cores	1/24/24	
Memory	32 GB eMMC, 16 GB DDR default, 32 GB option	
Storage	512 GB SSD and Micro-SD slot with 32 and 64 GB card options	
DIMENSIONS		
Enclosure	1RU	
Dimensions (W x D x H)	432 x 300 x 44 mm [16.93 x 11.8 x 1.74 in.]	
Weight	6.76 kg [14.9 lbs.]	
ENVIRONMENT		
Operating / Storage	0°C – 40°C / -45°C ~ 60°C [5-95%, non-condensing]	
POWER REQUIREMENTS		
AC Input	100 – 240VAC, 50 – 60 Hz	
Power Supply Rating	two redundant 150W power supplies	
Power Consumption (Max)	93.6W	
Heat Dissipation	319.3 BTU/hr.	
CERTIFICATIONS		
Safety Emissions Environment	UL/c-UL 62368-1, IEC 62368-1 CB / EMC, EMI EN55024, EN55032 Class B, VCCI, AS, NZS CISPR 32, IC ICES 03, FCC: Part 15 Class B / RoHS, REACH, WEEE	

1. Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast Zero-Day Protection with logging.

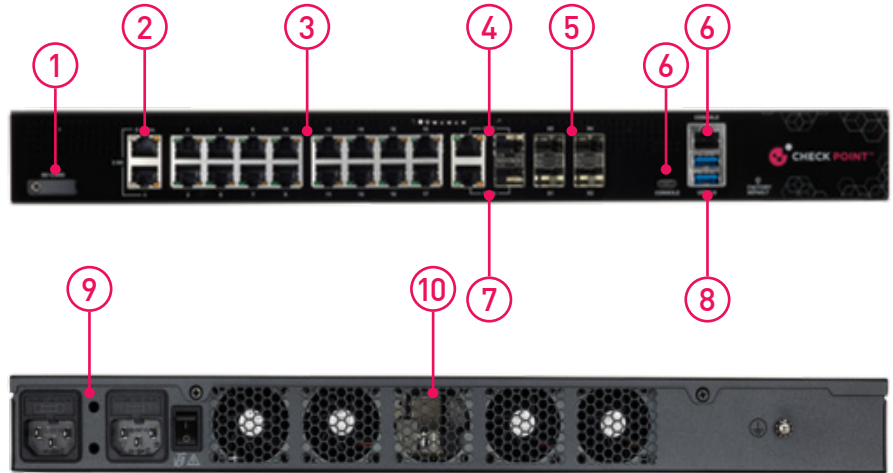
2. Includes Firewall, Application Control, IPS with logging.

* Smart Accel is available on release R81.10 and above. Smart Accel must be enabled on Web UI and is currently supported on devices managed via Web UI or SMP

Ordering Quantum Spark 1900, 2000

1900, 2000 Firewall

1. SD card slot
2. 2x 2.5GbE LAN ports
3. 16x 1GbE LAN switch
4. 1x 1GbE copper/fiber DMZ port
5. 4x 10GbE SFP+ LAN ports
6. Console port (USB-C or RJ45)
7. 1x 1GbE copper/fiber WAN port
8. USB ports
9. 2x power supplies
10. Fans



SECURITY APPLIANCES ¹

1900 Security Appliance, includes SandBlast (SNBT) Security Subscription Package for 1 Year	CPAP-SG1900-SNBT
2000 Security Appliance, includes SandBlast (SNBT) Security Subscription Package for 1 Year	CPAP-SG2000-SNBT

ACCESSORIES

SFP Short range transceiver (for the DMZ 1000BaseF port)	CPAC-1500-TR-1SX
SFP Long range transceiver (for the DMZ 1000BaseF port)	CPAC-1500-TR-1LX
SFP+ Short range transceiver	CPAC-1800-TR-10SR
SFP+ Long range transceiver	CPAC-1800-TR-10LR
SD memory card 32 GB	CPAC-1500-32GB-SD
SD memory card 64 GB	CPAC-1500-64GB-SD

¹ Add a NGFW, NGTP or NGTX subscription. Promotion bundles for 3 and 5 years include the security appliance, support and subscription package (see below). License includes SMP cloud management.

IOT, SD-WAN AND MOBILE SOFTWARE BLADES ¹

Mobile Access Blade for 50 concurrent connections	CPSB-MOB-50
Quantum IoT Protect for 1 year for 15x5 Firewall (1535, 1555, 1575, 1595)	CPSB-IOTP-15x5-1Y
Quantum SD-WAN for 1 year for 15x5 Firewall (1535, 1555, 1575, 1595)	CPSB-SDWAN-15x5-1Y

¹ Concurrent remote SNX or Mobile VPN client users. The MOB license is additive. The full Mobile Access web portal functionality is not supported.

Subscription Services

See the table above for security capabilities included in the NGFW, NGTP and SNBT services packages. IoT and SD-WAN are ordered a la carte.

SERVICE	SERVICES HIGHLIGHTS
Next-Gen Firewall (NGFW): segment networks and apply zero trust policy with IPS	<ul style="list-style-type: none"> • Accept, prevent, schedule, and apply traffic-shaping based controls to application traffic • 10,000+ pre-defined apps or customize your own application • Protect vulnerable systems with 12,000+ IPS protections
Next-Gen Threat Prevention (NGTP): AI Deep Learning DNS security with antivirus and anti-bot prevents threats	<ul style="list-style-type: none"> • DNS security prevents Command & Control (C2) connections and blocks data theft through DNS tunneling • Antivirus stops incoming malicious files and links in web, email, FTP and SMB content • Anti-Bot detects infected hosts and prevents communications with external C2 servers • Apply web and application control using 100+ categories or customize your own
SandBlast (SNBT): comprehensive, multi-layered defense with sandboxing protection from unknown and zero-day threats	<ul style="list-style-type: none"> • Average emulation time for unknown files that require full sandbox evaluation is under 100 seconds • Emulation OS Support: Windows XP, 7, 8.1, 10 applications • CPU-level, OS-level and static file analysis • Maximal file size for Emulation is 15MB
IoT Network Protection: simple, effective, autonomous discovery and protection of IoT devices in minutes	<ul style="list-style-type: none"> • Passive and active discovery of enterprise IoT devices with autonomous mapping to 200+ profiles • IoT attributes include function, manufacturer, model, risk, confidence, VLAN, IP and MAC address • Automatically creates and applies an inline zero-trust IoT policy layer
SD-WAN: reliable and optimum network connectivity at the lowest cost	<ul style="list-style-type: none"> • Link aggregation and link prioritization according to latency, jitter, and packet loss • Advanced multi-path orchestration and steering for 10,000+ apps • Sub-second failover for overlay and supported applications • SLA monitoring and autonomous link swapping

3 and 5 Year Security Appliance, Support and Services Bundles

	NGFW access control with IPS	NGTP prevent known threats	SNBT prevent zero-day threats
Security Appliance	✓	✓	✓
Premium Support (24 x 7 response, software upgrades and more)	✓	✓	✓
PRO Support option (proactive health monitoring service)	✓	✓	✓
Firewall	✓	✓	✓
VPN	✓	✓	✓
Mobile Access (includes 500 concurrent users in the 1900, 2000)	✓	✓	✓
Identity Awareness	✓	✓	✓
Application Control	✓	✓	✓
Intrusion Prevention System	✓	✓	✓
SD-WAN Network Optimization Services for Web UI/SMP	✓	✓	✓
URL Filtering		✓	✓
Antivirus and Anti-Bot		✓	✓
Anti-Spam and Email Security		✓	✓
DNS Security		✓	✓
Threat Emulation (sandboxing)			✓
IoT Network Protection Services for Web UI/SMP	✓	✓	✓
SD-WAN network optimization for SMBs*	✓	✓	✓
IoT Network Protection for SMBs*	✓	✓	✓

*With release R81.10.10 managed via local Web UI and Spark Management

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