



# Quantum Spark™

**YOU DESERVE THE BEST SECURITY**

DATASHEET  
**QUANTUM SPARK™ 1900, 2000  
FIREWALLS**

# QUANTUM SPARK 1900, 2000 SECURITY GATEWAYS



## Top Security Effectiveness

Check Point #1 for the 2nd year in a row with 99.8% malware block rate in Miercom Next-Generation Firewall Security Benchmark (2024)

## Named a Leader by Top Analyst Firms

Forrester Wave™ for Zero Trust Platform Providers, Q3 2023  
Gartner® Firewall Magic Quadrant™ (2022)

## AI/ML powered Threat Prevention

Protect networks and users from zero-days, phishing, DNS, and ransomware attacks

## Hyperscale Network Security

On-demand expansion, load balancing firewall clustering, and resilient access to mission-critical applications

**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 provide faster Internet connectivity, application performance, proven security, and maximum uptime with management made easy via an intuitive web interface.

## SPARK 1900, 2000 HIGHLIGHTS

Next Gen Firewall

up to 10 Gbps

Threat Prevention

up to 5 Gbps

Interfaces

24 ports

## AI-Powered 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 18x1GbE, 2x2.5GbE and 4x10GbE network interfaces make these gateways 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

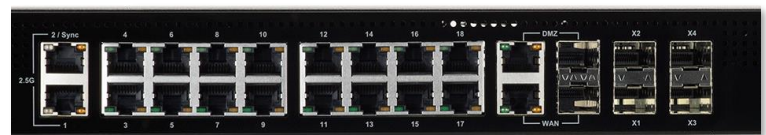
R81 software for SMB increases performance and brings enterprise-grade security to small and mid-sized businesses.

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 18 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      |
|---|--|-----------|
| <b>Enterprise Testing Conditions</b>                |  |           |
| Threat Prevention <sup>1</sup>                      | 4 Gbps   | 5 Gbps    |
| Next Generation Firewall <sup>2</sup>               | 8 Gbps   | 10 Gbps   |
| IPS Throughput                                      | 9 Gbps   | 11 Gbps   |
| Firewall Throughput                                 | 20 Gbps  | 20 Gbps   |
| <b>RFC 3511, 2544, 2647, 1242 Performance (LAB)</b> |  |           |
| 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 |
| <b>Software</b>                                     |  |           |
| 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  |           |
| <b>Hardware</b>                                     |  |           |
| 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  |           |
| <b>Dimensions</b>                                   |  |           |
| 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.)  |           |
| <b>Environment</b>                                  |  |           |
| Operating / Storage                                 | 0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)  |           |
| <b>Power Requirements</b>                           |  |           |
| 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.  |           |
| <b>Certifications</b>                               |  |           |
| 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 |           |

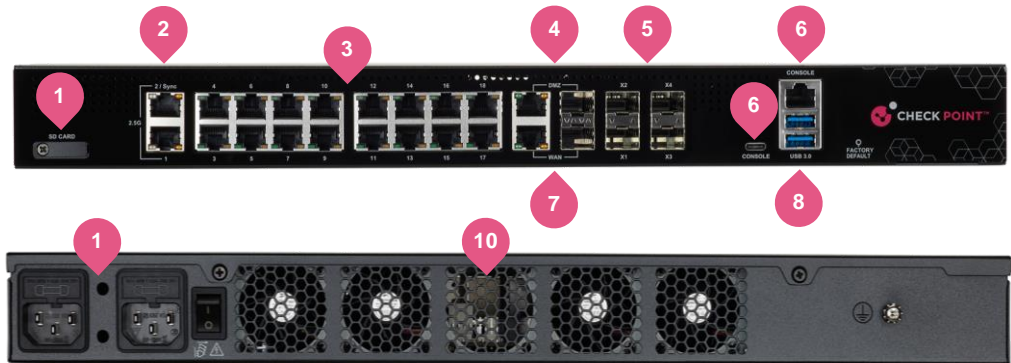
1. Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast Zero-Day Protection with logging.

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

## 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 <sup>1</sup>

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

<sup>1</sup> 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 <sup>1</sup>

|   |                    |
|---|--------------------|
| 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 |

<sup>1</sup> 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 below for security capabilities included in the NGFW, NGTP and SNBT services packages. IoT and SD-WAN are ordered a la carte.

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

## Services Bundles

|   | NGFW<br>access control with IPS | NGTP<br>prevent known threats | SNBT<br>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                  | ✓                               | ✓                             | ✓                                |
| IoT Network protection for SMBs*                                |                                 |                               | ✓                                |
| SD-WAN network optimization for SMBs*                           | ✓                               | ✓                             | ✓                                |
| IoT network protection for enterprises**                        | Optional                        | Optional                      | Optional                         |
| SD-WAN network optimization for enterprises**                   | Optional                        | Optional                      | Optional                         |

Optional security capabilities can be ordered a-la-carte or separately.

\* Starting from release R81.10.10. and supported on Web UI and Spark Management only. SD-WAN does not support VPN overlay.

\*\* Supported on Smart-1 only