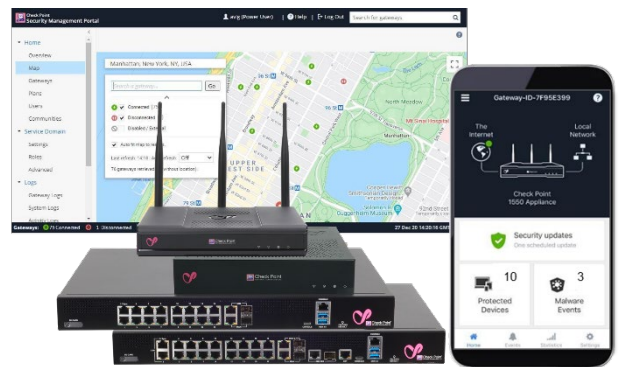# QUANTUM SPARK™ 1600, 1800 SECURITY GATEWAYS

## Secure. Simple. Complete.

Check Point Quantum Spark security gateways are high performance, integrated devices offering firewall, VPN, antivirus, application visibility and control, URL filtering, email security and SandBlast Zero-Day Protection, all in compact form factors that are simple to configure and manage.

## Quantum Spark – Full Protection for Small and Midsize Businesses

Protection from
Every Threat

Easy to Deploy
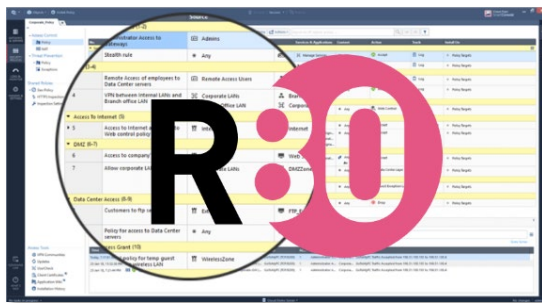and Manage

All-in-One
Solution

# SPOTLIGHT

## Advanced security, uncompromising performance

The Check Point Quantum Spark 1600 and 1800 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 2.5 and 10 GbE network interfaces in the 1800 make these NGFWs ideal for larger branch and SMB networks.

**Comprehensive Protection**

- ❖ Next Generation Firewall
- ❖ Site-to-Site VPN
- ❖ Remote Access VPN
- ❖ Application Control and Web Filtering
- ❖ IoT Device Recognition
- ❖ Intrusion Prevention
- ❖ Antivirus
- ❖ Anti-Bot
- ❖ Anti-Spam
- ❖ SandBlast Threat Emulation (sandboxing)



### R80 Software for SMB Gateways

R80 software for SMB increases performance and brings enterprise-grade security to small and medium size 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



### 1/2.5/5/10 GbE Network Connectivity

The 1600 has 1GbE copper or fiber options for the WAN and DMZ. The 1800 has a 1GbE Management port, 2.5GbE options for the LAN and a 10GbE copper or fiber option for the DMZ.

|      | 1600 | 1800 |
|------|------|------|
| LAN  | 16x 1GbE copper | 16x 1GbE copper plus 2x 2.5GbE copper |
| DMZ  | 1x 1GbE copper/fiber | 1x 10GbE copper/fiber |
| WAN  | 1x 1GbE copper/fiber | 2x 1GbE copper/fiber |
| MGMT | | 1x 1GbE copper |
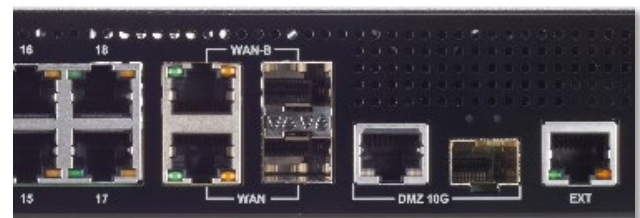


**1800 Port Configuration**
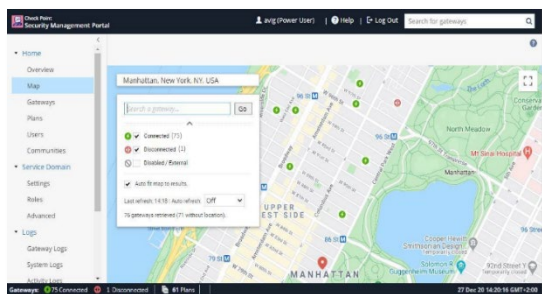


### Cloud Management

An intuitive web-based user interface, enables service providers to provision security efficiently for small and medium-size businesses. In addition a cloud-hosted Security Management Portal scales to manage over 10,000 Check Point Quantum Spark Gateways. SMBs can leave security to a service provider so they can focus on growing their own business.

# SPOTLIGHT

## Lower the complexity of managing your security

Setup can be done in minutes using pre-defined security policies and a step-by-step configuration wizard. Check Point Quantum Spark Security Gateways are conveniently manageable locally via a Web interface and centrally with a cloud-based Check Point Security Management Portal (SMP) or R80 Security Management.

**Simple, Intuitive Reporting**

The web interface shows logs, active computers, and hourly, daily, weekly and monthly reports. In-network analysis find top applications and users consuming the most bandwidth. Security analysis shows users visiting high-risk sites and using high-risk applications, as well as any incidents or infected hosts found during the reporting period.
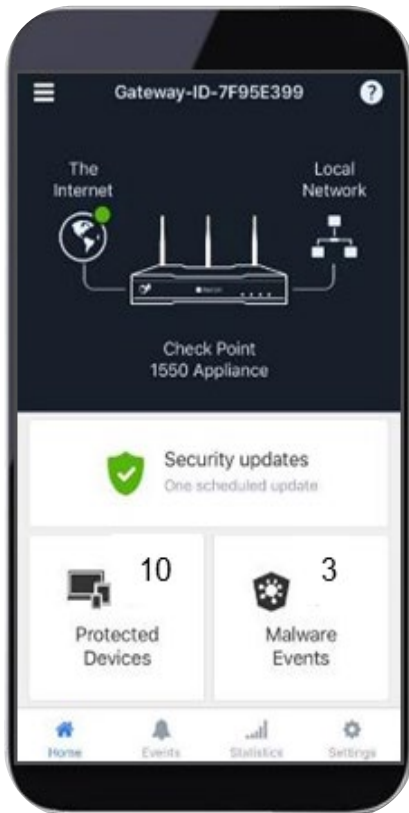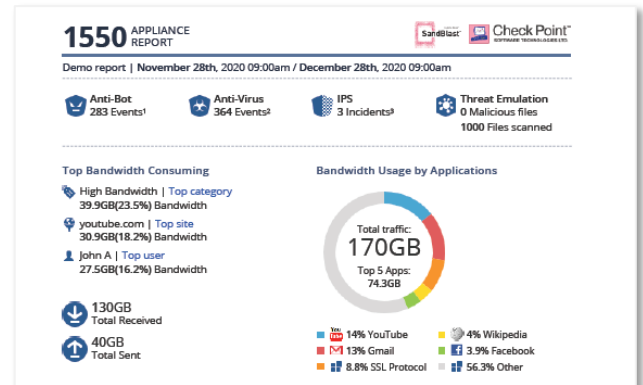


**Security Management App**

The intuitive mobile app provides real-time monitoring of network events, alerts you when your network is at risk, enables you to quickly block security threats, and configure the security policy for multiple gateways.

- **Network security snapshot:** view connected devices and any threats
- **Real-time security alerts:** highlights attacks and unauthorized devices
- **On-the-spot threat mitigation:** quickly block infected devices
- **Network statistic reports and charts:** gain insights on network usage patterns
- **Manage multiple gateways:** manage security in the palm of your hand
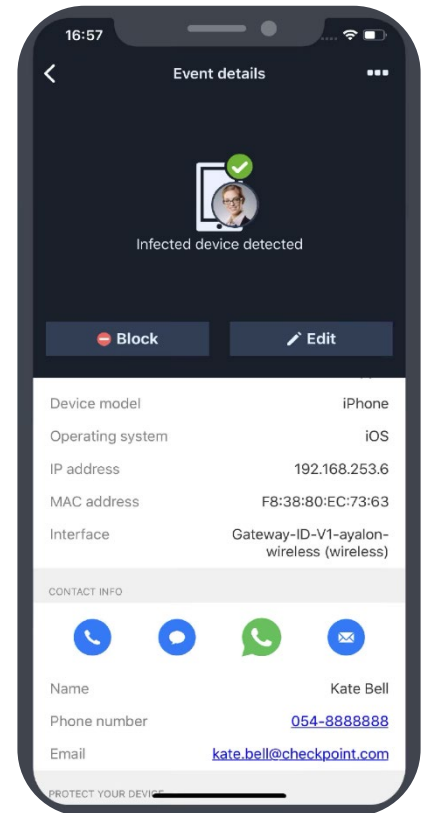
## 1600 Security Gateway

1. SD card slot
2. 16x 1GbE LAN switch
3. 1x 1GbE copper/fiber DMZ port
4. Console port
5. 1x 1GbE copper/fiber WAN port
6. USB ports
7. 1x power supply
8. Power on/off switch
9. Fans

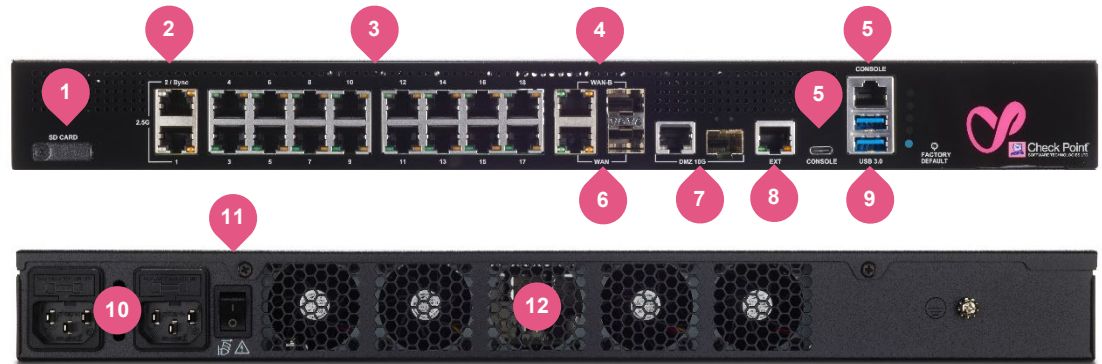| | 1600 |
|---|---|
| **Enterprise Testing Conditions** | |
| Threat Prevention (Mbps) [1] | 1,500 |
| Next Generation Firewall (Mbps) [2] | 3,200 |
| IPS Throughput (Mbps) | 3,500 |
| Firewall Throughput (Mbps) | 4,800 |
| **RFC 3511, 2544, 2647, 1242 Performance (LAB)** | |
| Firewall 1518 Byte UDP Packets (Mbps) | 8,000 |
| VPN AES-128 Throughput (Mbps) | 3,200 |
| Connections per Second | 55,000 |
| Concurrent Connections | 2,400,000 |
| **Software** | |
| Security | Firewall, VPN, User Awareness, QoS, Application Control, URL Filtering, IPS, Anti-Bot, Antivirus, Anti-Spam and SandBlast Threat Emulation (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 / 1000BaseF SFP port (transceiver not included) |
| DMZ Port | 1x 10/100/1000Base-T RJ-45 / 1000BaseF SFP port (transceiver not included) |
| LAN Switch Ports | 16x 10/100/1000Base-T RJ-45 ports |
| Console Ports | 1x USB-C and 1x RJ-45 console port |
| USB Port | 2x USB 3.0 ports |
| Storage | Micro-SD card slot with 32 and 64 GB card options |
| eMMC | 32 GB |
| MTBF | 22.26 years @ 25ºC |
| **Dimensions** | |
| Dimensions (W x D x H) | 1RU form factor: 430 x 300 x 44.2 mm (16.93 x 11.8 x 1.74 in.) |
| Weight | 6.17 kg (13.6 lbs.) |
| **Environment** | |
| Operating / Storage | 0ºC ~ 40ºC / -45ºC ~ 60ºC (5~95%, non-condensing) |
| **Power Requirements** | |
| AC Input | 110 – 240VAC, 50 – 60 Hz |
| Power Supplies | single 150W power supply |
| Power Consumption (Max) | 71.6W |
| Heat Dissipation (BTU/hr) | 244.31 |
| **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.

# CHECK POINT

Quantum Spark™

## 1800 Security Gateway

1. SD card slot
2. 2x 2.5GbE ports
3. 16x 1GbE LAN switch
4. 1x 1GbE copper/fiber WAN2 (*future)
5. Console port
6. 1x 1GbE copper/fiber WAN1 port
7. 1x 10GbE copper/fiber DMZ port
8. 1x 1GbE Management port (*future)
9. 2x USB ports
10. 2x power supplies
11. Power on/off switch
12. Fans

| | 1800 |
|---|---|
| **Enterprise Testing Conditions** | |
| Threat Prevention (Mbps) [1] | 2,000 |
| Next Generation Firewall (Mbps) [2] | 5,000 |
| IPS Throughput (Mbps) | 5,500 |
| Firewall Throughput (Mbps) | 7,500 |
| **RFC 3511, 2544, 2647, 1242 Performance (LAB)** | |
| Firewall 1518 Byte UDP Packets (Mbps) | 17,000 |
| VPN AES-128 Throughput (Mbps) | 4,000 |
| Connections per Second | 66,000 |
| Concurrent Connections | 2,400,000 |
| **Software** | |
| Security | Firewall, VPN, User Awareness, QoS, Application Control, URL Filtering, IPS, Anti-Bot, Antivirus, Anti-Spam and SandBlast Threat Emulation (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 Ports | 2x 10/100/1000Base-T RJ-45 / 1000BaseF SFP ports (transceiver not included) *WAN2 support in future SW release |
| DMZ Port | 1x 10GbE Base-T RJ-45 / 10GbE SFP+ (transceiver not included) |
| LAN Switch Ports | 2x 2.5GbE Base-T RJ-45 plus 16x 10/100/1000Base-T RJ-45 ports |
| Management Port | 1x 10/100/1000Base-T RJ-45 port *MGMT support in future SW release |
| Console Ports | 1x USB-C and 1x RJ-45 console port |
| USB Ports | 2x USB 3.0 ports |
| Storage | 256 GB SSD and Micro-SD slot with 32 and 64 GB card options |
| eMMC | 32 GB |
| MTBF | 15.64 years @ 25ºC |
| **Dimensions** | |
| Dimensions (W x D x H) | 1RU form factor: 430 x 300 x 44.2 mm (16.93 x 11.8 x 1.74 in.) |
| Weight | 6.76 kg (14.9 lbs.) |
| **Environment** | |
| Operating / Storage | 0ºC ~ 40ºC / -45ºC ~ 60ºC (5~95%, non-condensing) |
| **Power Requirements** | |
| AC Input | 110 – 240VAC, 50 – 60 Hz |
| Power Supplies | two redundant 150W power supplies |
| Power Consumption (Max) | 93.6W |
| Heat Dissipation (BTU/hr) | 319.3 |
| **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.

# ORDERING QUANTUM SPARK 1600, 1800

| SECURITY GATEWAYS [1] | |
|---|---|
| 1600 Security Gateway | CPAP-SG1600-SNBT |
| 1800 Security Gateway | CPAP-SG1800-SNBT |

| ACCESSORIES | |
|---|---|
| SFP Short range transceiver (for the DMZ/WAN 1000Base-F ports) | CPAC-1500-TR-1SX |
| SFP Long range transceiver (for the DMZ/WAN 1000Base-F ports) | CPAC-1500-TR-1LX |
| SFP+ Short range transceiver (for 1800 DMZ 10GBase-F port) | CPAC-1800-TR-10SR |
| SFP+ Long range transceiver (for 1800 DMZ 10GBase-F port) | CPAC-1800-TR-10LR |
| SD memory card 32 GB | CPAC-1500-32GB-SD |
| SD memory card 64 GB | CPAC-1500-64GB-SD |

| ADDITIONAL SOFTWARE BLADES [2] | |
|---|---|
| Mobile Access Blade for 50 concurrent connections | CPSB-MOB-50 |

[1] Add a NGFW, NGTP or NGTX subscription. Promotion bundles for 3 and 5 years include the security gateway, support and subscription package (see below). License includes support for SMP cloud management. [2] Concurrent remote SNX or Mobile VPN client users. The MOB license is additive. The full Mobile Access web portal functionality is not supported.

## 3 and 5 Year Security Gateway, Support and Services Bundles

| | NGFW | NGTP | SNBT |
|---|---|---|---|
| Security Gateway | ✔ | ✔ | ✔ |
| 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) | ✔ | ✔ | ✔ |
| Application Control | ✔ | ✔ | ✔ |
| Intrusion Prevention System | ✔ | ✔ | ✔ |
| URL Filtering | | ✔ | ✔ |
| Antivirus and Anti-Bot | | ✔ | ✔ |
| Threat Emulation (sandboxing) | | | ✔ |