



# 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)



#### 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                                     |
|----------------------|------------------------------------------|
| 16x 1GbE copper      | 16x 1GbE copper plus<br>2x 2.5GbE copper |
| 1x 1GbE copper/fiber | 1x 10GbE copper/fiber                    |
| 1x 1GbE copper/fiber | 2x 1GbE copper/fiber                     |
|                      | 1x 1GbE copper                           |
|                      | 16x 1GbE copper 1x 1GbE copper/fiber     |





#### **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



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**

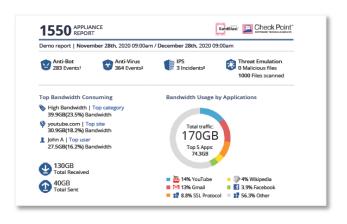
# Lower the complexity of managing your security

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.



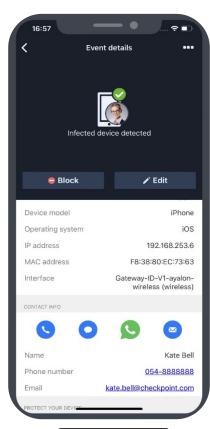




### **Security Management App**

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)                     | 1,500                                                                                                                                                   |  |  |
| Next Generation Firewall (Mbps) <sup>2</sup> | 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 @ 25°C                                                                                                                                      |  |  |
| 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                          | 0°C ~ 40°C / -45°C ~ 60°C (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 1  Class B / RoHS, REACH, WEEE      |  |  |

<sup>1.</sup> Includes Firewall, Application Control, URL Filtering, IPS, Antivirus, Anti-Bot, SandBlast Zero-Day Protection with logging. 2. Includes Firewall, Application Control, IPS with logging.





## **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



| DMZ Port         1x 106bE Base-T RJ-45 / 106bE SFP+ (transceiver not included)           LAN Switch Ports         2x 2.56bE 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 @ 25°C           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         0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)           Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                              |                                                                                                                       |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--|--|
| Threat Prevention (Mbps)¹         2,000           Next Generation Firewall (Mbps)¹         5,000           IPS Throughput (Mbps)         5,500           Firewall Throughput (Mbps)         7,500           Firewall Throughput (Mbps)         7,500           Firewall Throughput (Mbps)         17,000           Firewall Throughput (Mbps)         17,000           VPN AES-128 Throughput (Mbps)         4,000           Connections per Second         66,000           Concurrent Connections         7,600           Security         Firewall, VPN, User Awareness, OoS, Application Control, URL Filtering, IPS, Anti-Bat, 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         10cal network and internet connections, dual stack tunneling IPv4 over IPv6 networks, prefix delegation           Mobile Access License (Users)         2 x 10/100/1000Base-T RJ-45 / 1000BaseF SFP ports (transceiver not included)           WAP ports         2 x 10/100/1000Base-T RJ-45 / 1000BaseF SFP ports (transceiver not included)           MAP ports         2 x 2506E Base-T RJ-45 puts (x 10/100/1000Base-T RJ-45 puts (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                              | 1800                                                                                                                  |  |  |
| Next Generation Firewalt IMbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Enterprise Testing Conditions                |                                                                                                                       |  |  |
| PS Throughput (Mbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Threat Prevention (Mbps) 1                   | 2,000                                                                                                                 |  |  |
| Firewall Throughput (Mbps)         7,500           RFC 3511, 2544, 2647, 1242 Performance (LB)           Firewall 1518 Byte UDP Packets (Mbps)         17,000           VPM AES-128 Throughput (Mbps)         4,000           Connections per Second         66,000           Concurrent Connections         2,400,000           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 ISM, DM, SSMI, IGMP, ClusterXL High Availability           IPV6         Incal network and internet connections, dual stack tunneting IPv4 over IPv6 networks, prefix delegation           Mobile Access License (Users)         500 remote SNX or Mobile VPN client users           Mardware         2x 10/100/1000Base-T RJ-45 / 1000BaseF SFP ports (transceiver not included) *WAN2 support in future SW release           DMZ Port         1x 106bE Base-T RJ-45 / 1006bE SFP+ (transceiver not included)           LAN Switch Ports         2x 2 50bE Base-T RJ-45 / 1006bE SFP+ (transceiver not included)           Management Port         1x 10/100/1000Base-T RJ-45 put 16x 10/100/1000Base-T RJ-45 ports           Management Ports         2x 2 50bE Base-T RJ-45 put 16x 10/100/1000Base-T RJ-45 ports           USB Ports         2x USB -0 and 1x RJ-45 console port <t< td=""><td>Next Generation Firewall (Mbps) <sup>2</sup></td><td>5,000</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Next Generation Firewall (Mbps) <sup>2</sup> | 5,000                                                                                                                 |  |  |
| RFC 3511, 2544, 2647, 1242 Performance (LAB)           Firewall 1518 Bye UDP Packets (Mbps)         17,000           VPN AES-128 Throughput (Mbps)         4,000           Connections per Second         66,000           Concurrent Connections         2,400,000           Software           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         0SPFv2, BGPv4 and 4++, RIP, PIM [SM, DM, SSM], I6MP, ClusterXL High Availability           IPv6         local network and internet connections, dual stack tunneling IPv4 over IPv6 networks, prefix detegation           Mobile Access License (Users)         500 remote SNX or Mobile VPN client users           Hardware           WAN Ports         2x 10/100/1000Base-T RJ-45 / 1000Base-F SPP ports (transceiver not included) "WAN2 support in future SW release           DMZ Port         1x 1000Base-T RJ-45 plus 16x 10/100/1000Base-T RJ-45 plus 16x 10/100/1000Base-T RJ-45 ports           Management Port         1x 1000Base-T RJ-45 plus 16x 10/100/1000Base-T RJ-45 ports           Management Port         1x 1000Base-T RJ-45 plus 16x 10/100/1000Base-T RJ-45 ports           Console Ports         1x USB-C and 1x RJ-45 console port           USB Ports         2x 256BB SSD and Micro-SD slot with 32 and 64 6B card options <tr< td=""><td>IPS Throughput (Mbps)</td><td>5,500</td></tr<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IPS Throughput (Mbps)                        | 5,500                                                                                                                 |  |  |
| Firewalt I518 Byte UDP Packets (Mbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              | 7,500                                                                                                                 |  |  |
| VPN AES-128 Throughput (Mbps)         4,000           Connections per Second         66,000           Concurrent Connections         2,400,000           Software         Security         Firewalt, VPN, User Awareness, QoS, Application Control, URL Filtering, IPS, Anti-Bot, Antivirus, Anti-Spam and SandBlast Threat Emulation Isandboxing)           Unicast, Multicast Routing and Clustering         OSPEV2, BGPV4 and 4++, RIP, PIM [SM, DM, SSM], IGMP, ClusterXL High Availability           IPV6         Indicast Routing and Clustering         OSPEV2, BGPV4 and 4++, RIP, PIM [SM, DM, SSM], IGMP, ClusterXL High Availability           IPV6         Indicast Multicast Routing and Clustering         OSPEV2, BGPV4 and 4++, RIP, PIM [SM, DM, SSM], IGMP, ClusterXL High Availability           IPV6         Indicast Multicast Routing and Clustering         OSPEV2, BGPV4 and 4++, RIP, PIM [SM, DM, SSM], IGMP, ClusterXL High Availability           IPV6         Indicast Multicast Routing and Clustering         OSPEV2, BGPV4 and 4++, RIP, PIM [SM, DM, SSM], IGMP, ClusterXL High Availability           IPV6         Indicast Multicast Routing and Clustering         OSPEV2, BGPV4 and 4++, RIP, PIM [SM, DM, SSM], IGMP, ClusterXL High Availability           MARCHAME         A 1000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RFC 3511, 2544, 2647, 1242 Performance (     | LAB)                                                                                                                  |  |  |
| Connections per Second Concurrent Connections Software  Security S | Firewall 1518 Byte UDP Packets (Mbps)        | 17,000                                                                                                                |  |  |
| Software  Security  Securi | VPN AES-128 Throughput (Mbps)                | 4,000                                                                                                                 |  |  |
| 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)  Mobile Access License (Users)  For Van Ports  2x 10/100/1000Base-T RJ-45 / 1000BaseF SFP ports (transceiver not included) *WAN2 support in future SW release  DMZ Port  1x 100bE Base-T RJ-45 / 100bE SFP+ (transceiver not included)  LAN Switch Ports  2x 2,56bE Base-T RJ-45 plus 16x 10/100/1000Base-T RJ-45 ports  Management Port  1x 10/100/1000Base-T RJ-45 plus 16x 10/100/1000Base-T RJ-45 ports  Management 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 @ 25°C  Dimensions  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  0°C - 40°C / -45°C ~ 60°C [5-95%, non-condensing)  Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Connections per Second                       | 66,000                                                                                                                |  |  |
| 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)  Fardware  WAN Ports  2x 10/100/1000Base-T RJ-45 / 1000BaseF SFP ports (Itransceiver not included) *WAN2 support in future SW release  DMZ Port  1x 106bE Base-T RJ-45 / 1006bE SFP+ (Itransceiver not included)  LAN Switch Ports  2x 2.56bE Base-T RJ-45 plus 16x 10/100/1000Base-T RJ-45 ports  Management Port  1x 105B 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 @ 25°C  Dimensions  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.]  Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Concurrent Connections                       | 2,400,000                                                                                                             |  |  |
| Security  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)  Fardware  WAN Ports  2x 10/100/1000Base-T RJ-45 / 1000BaseF SFP ports (transceiver not included) *WAN2 support in future SW release  DMZ Port  1x 106bE Base-T RJ-45 / 106bE SFP+ (transceiver not included)  LAN Switch Ports  2x 2.56bE 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 © 25°C  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  0°C - 40°C / -45°C - 60°C [5-95%, non-condensing)  Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Software                                     |                                                                                                                       |  |  |
| 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 IPv6 over IPv6 networks, prefix delegation Mobile Access License (Users) S00 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 106bE Base-T RJ-45 / 106bE SFP+ (transceiver not included) LAN Switch Ports 2x 2.56bE 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 slow with 32 and 64 GB card options  MMBF 32 GB  MTBF 15.64 years @ 25°C  Dimensions  Dimensions  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 0°C - 40°C / -45°C - 60°C [5-95%, non-condensing]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                              | Firewall, VPN, User Awareness, QoS, Application Control, URL Filtering, IPS, Anti-Bot, Antivirus, Anti-Spam and       |  |  |
| IPv6   Iocal network and internet connections, dual stack tunneling IPv4 over IPv6 networks, prefix delegation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Security                                     |                                                                                                                       |  |  |
| IPv6   Iocal network and internet connections, dual stack tunneling IPv4 over IPv6 networks, prefix delegation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unicast, Multicast Routing and Clustering    | OSPFv2, BGPv4 and 4++, RIP, PIM (SM, DM, SSM), IGMP, ClusterXL High Availability                                      |  |  |
| 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 @ 25°C           Dimensions         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         0°C ~ 40°C / ~45°C ~ 60°C [5~95%, non-condensing]           Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IPv6                                         | local network and internet connections, dual stack tunneling IPv4 over IPv6 networks, prefix delegation               |  |  |
| 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 106bE Base-T RJ-45 / 106bE SFP+ [transceiver not included]           LAN Switch Ports         2x 2.56bE 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 @ 25°C           Dimensions         IRU 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         0°C ~ 40°C / ~45°C ~ 60°C [5~95%, non-condensing]           Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mobile Access License (Users)                |                                                                                                                       |  |  |
| 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 @ 25°C           Dimensions         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         0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)           Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Hardware                                     |                                                                                                                       |  |  |
| LAN Switch Ports         2x 2.56bE 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 @ 25°C           Dimensions         IRU 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         0°C ~ 40°C / -45°C ~ 60°C [5-95%, non-condensing]           Power Requirements         0°C ~ 40°C / -45°C ~ 60°C [5-95%, non-condensing]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | WAN Ports                                    | 2x 10/100/1000Base-T RJ-45 / 1000BaseF SFP ports (transceiver not included) *WAN2 support in future SW releas         |  |  |
| 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 @ 25°C           Dimensions         IRU 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         0°C ~ 40°C / -45°C ~ 60°C [5~95%, non-condensing)           Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DMZ Port                                     | 1x 10GbE Base-T RJ-45 / 10GbE SFP+ (transceiver not included)                                                         |  |  |
| 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 @ 25°C           Dimensions         IRU 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           Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LAN Switch Ports                             | 2x 2.5GbE Base-T RJ-45 plus 16x 10/100/1000Base-T RJ-45 ports                                                         |  |  |
| 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 @ 25°C           Dimensions         IRU 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           Power Requirements         0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Management Port                              |                                                                                                                       |  |  |
| Storage         256 GB SSD and Micro-SD slot with 32 and 64 GB card options           eMMC         32 GB           MTBF         15.64 years @ 25°C           Dimensions         IRU 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           Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Console Ports                                |                                                                                                                       |  |  |
| eMMC 32 GB  MTBF 15.64 years @ 25°C  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 0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)  Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | USB Ports                                    | · ·                                                                                                                   |  |  |
| eMMC 32 GB  MTBF 15.64 years @ 25°C  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 0°C ~ 40°C / -45°C ~ 60°C [5~95%, non-condensing)  Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Storage                                      | <u> </u>                                                                                                              |  |  |
| 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         0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)           Power Requirements         0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | eMMC                                         | •                                                                                                                     |  |  |
| 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         0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)           Power Requirements         0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MTBF                                         | -                                                                                                                     |  |  |
| Weight         6.76 kg [14.9 lbs.]           Environment         Operating / Storage           Operating Power Requirements         0°C ~ 40°C / -45°C ~ 60°C [5~95%, non-condensing]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Dimensions                                   |                                                                                                                       |  |  |
| Environment  Operating / Storage  O°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)  Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 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.)                                                        |  |  |
| Operating / Storage 0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)  Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Weight                                       | 6.76 kg (14.9 lbs.)                                                                                                   |  |  |
| Power Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Environment                                  | <u> </u>                                                                                                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Operating / Storage                          | 0°C ~ 40°C / -45°C ~ 60°C (5~95%, non-condensing)                                                                     |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Power Requirements                           |                                                                                                                       |  |  |
| AC Input 110 – 240VAC, 50 – 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AC Input                                     | 110 - 240VAC, 50 - 60 Hz                                                                                              |  |  |
| Power Supplies two redundant 150W power supplies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Power Supplies                               | two redundant 150W power supplies                                                                                     |  |  |
| Power Consumption (Max) 93.6W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Power Consumption (Max)                      | 93.6W                                                                                                                 |  |  |
| Heat Dissipation (BTU/hr) 319.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Heat Dissipation (BTU/hr)                    | 319.3                                                                                                                 |  |  |
| Certifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 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 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              | Class B / RoHS, REACH, WEEE                                                                                           |  |  |

<sup>1.</sup> 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 <sup>2</sup>           |             |
|---------------------------------------------------|-------------|
| Mobile Access Blade for 50 concurrent connections | CPSB-MOB-50 |

<sup>&</sup>lt;sup>1</sup> 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. <sup>2</sup> 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                                              | <b>✓</b> | <b>✓</b> | <b>✓</b> |
| Premium Support (24 x 7 response, software upgrades and more) | <b>✓</b> | <b>✓</b> | <b>✓</b> |
| PRO Support option (proactive health monitoring service)      | <b>✓</b> | <b>✓</b> | <b>✓</b> |
| Firewall                                                      | <b>✓</b> | <b>✓</b> | <b>✓</b> |
| VPN                                                           | <b>✓</b> | ~        | <b>✓</b> |
| Mobile Access (includes 500 concurrent users)                 | <b>✓</b> | <b>✓</b> | <b>✓</b> |
| Application Control                                           | <b>✓</b> | <b>✓</b> | <b>✓</b> |
| Intrusion Prevention System                                   | <b>✓</b> | <b>✓</b> | <b>✓</b> |
| URL Filtering                                                 |          | <b>✓</b> | <b>✓</b> |
| Antivirus and Anti-Bot                                        |          | <b>✓</b> | <b>✓</b> |
| Threat Emulation (sandboxing)                                 |          |          | <b>✓</b> |