HUAWEI USG6650/6660/6670/6680 Next-Generation Firewalls

---High-Performance Security for Small Data Centers and Large or Medium-sized Enterprises



Huawei USG6650/6660/6670/6680 next-generation firewalls are designed for small data centers and large or medium-sized enterprises. The firewalls provide full-fledged application identification and application-layer threat and attack defense capabilities, and deliver high performance even when multiple security functions are enabled. The firewalls also offer multiple interface card slots that support various interface cards, such as GE electrical/optical and 10 GE interface cards. These cards allow users to flexibly expand services and enable the firewalls to evolve with enterprise networks, making USG6650/6660/6670/6680 firewalls highly cost-effective and protecting customer investment.

Highlights

Comprehensive protection, third-party proven security capability

- Integrate firewall, VPN, intrusion prevention, antivirus, data leak prevention, bandwidth management, and online behavior management functions all in one device
- Obtained Firewall, IPS, IPsec, and SSL VPN certifications from the ICSA Labs
- Obtained the highest-level CC certificate (EAL4+), ranking among the highest security levels in the world
- The USG6650 earned the "Recommended" rating with 98.1 percent comprehensive security effectiveness and 99.95 percent CAWS (Live) Exploit Block Rate, leading the industry in terms of security capabilities

Visualized and fine-grained management and control

- Deliver diversified reports to provide all-around visibility into service status, network environment, security posture, and user behavior
- · Identify application-layer threats from application, content, time, user, attack, and location dimensions
- Accurately identify more than 6000 applications to deliver fine-grained access control and improve the quality of key services



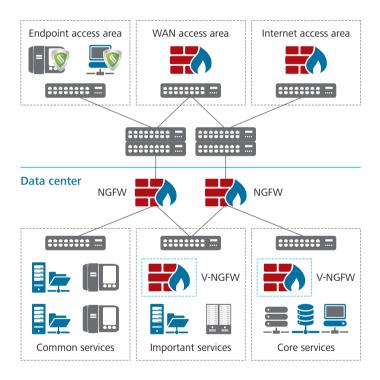
High port density

- Support various types of interface cards, such as GE electrical/optical and 10 GE interface cards, providing up to 78 interfaces, including 56 GE electrical, 8 SFP optical, and 14 10GE optical interfaces
- Provide multiple high-density interface card slots, enabling users to flexibly expand the hardware and performance to suit service requirements
- Support dual AC or DC hot-swappable power supplies

Deployment

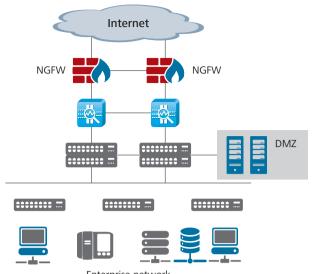
Data center border protection

- Firewalls are deployed at egresses of data centers, and functions and system resources can be virtualized.
- The 10-Gigabit intrusion prevention capability effectively blocks a variety of malicious attacks and delivers differentiated defense based on virtual environment requirements to guarantee data security.
- VPN tunnels can be set up between firewalls and mobile workers and between firewalls and branch offices for secure and low-cost remote access and mobile working.



Enterprise border protection

- Block all unauthorized access attempts at enterprise network egresses.
- Provide real-time 10-Gigabit-level application-layer threat prevention, even when IPS is enabled.
- Perform data filtering and auditing on files transmitted through sources such as email and IM to monitor social network applications and prevent data leaks.
- Deliver user- and application-specific bandwidth management to guarantee service quality for core users and of mission-critical services.
- Support online behavior management based on URL categories and applications to block access to malicious websites and websites irrelevant to work.



Enterprise network

Hardware

USG6650/6660-AC



Interfaces

- 1. 8 x GE (RJ45) and 2 x 10 GE (SFP+) Ports
- 2. 8 x GE (SFP) Ports
- 3. 2 x USB Ports

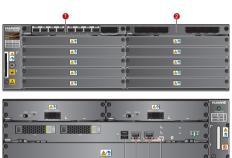
USG6670-AC



Interfaces

- 1. 8 x GE (RJ45) and 2 x 10GE (SFP+) Ports
- 2. 8 x GE (RJ45) and 2 x 10GE (SFP+) Ports
- 3. 8 x GE (SFP) Ports
- 4. 2 x USB Ports

USG6660-DC



- 4. 1 x GE (RJ45) Management Port
- 5. Console Port (RJ45)
- 6. Console Port (Mini-USB)

USG6670-DC



- 5. 1 x GE (RJ45) Management Port
- 6. Console Port (RJ45)
- 7. Console Port (Mini-USB)

USG6680-AC

Interfaces

- 1. 8 x GE (RJ45) and 2 x 10GE (SFP+) Ports
- 2. 8 x GE (RJ45) and 2 x 10GE (SFP+) Ports
- 3. 8 x GE (SFP) Ports
- 4. 2 x USB Ports

USG6680-DC



- 5. 1 x GE (RJ45) Management Port
- 6. Console Port (RJ45)
- 7. Console Port (Mini-USB)

Table 1. Wide Service Interface Cards (WSICs) for USG6600 Series

| Feature | 2XG8GE | 8GE | |
|-------------------------|--------------------------------|---------------|--|
| | | | |
| Technical Specification | | | |
| Integrated Ports | 2 x 10GE (SFP+), 8 x GE (RJ45) | 8 x GE (RJ45) | |

| Feature | 8GEF | 4GE-BYPASS | |
|-------------------------|--------------|----------------------|--|
| | | | |
| Technical Specification | | | |
| Integrated Ports | 8 x GE (SFP) | 4 x GE (RJ45) BYPASS | |

Software Features

| | Function | Description |
|--|--|---|
| | Integrated Protection | Provides firewall, VPN, intrusion prevention, antivirus, data leak prevention, bandwidth management, Anti-DDoS, URL filtering, and anti-spam functions. |
| | Application Identification and Control | Identifies common applications, supports application-specific access control, and combines application identification with intrusion prevention, antivirus, and data filtering to improve detection performance and accuracy. |
| | Intrusion Prevention and Web Protection | Obtains the latest threat information in a timely manner for accurate detection and prevention of vulnerability exploits and web attacks, such as cross-site scripting and SQL injection attacks. |

| Function | Description |
|------------------------------------|---|
| Antivirus | Rapidly detects over five million types of viruses through the daily-updated signature database. |
| Anti-APT* | Interworks with the sandbox to detect and block malicious files. |
| Data Leak Prevention | Inspects files to identify the file type, such as WORD, EXCEL, POWERPOINT, and PDF, based on file contents, and filters sensitive content. |
| Bandwidth Management | Manages per-user and per-IP bandwidth in addition to identifying service applications to prioritize mission-critical services and users through methods such as peak bandwidth and committed bandwidth, policy-based routing (PBR), and application forwarding priority adjustment. |
| URL Filtering | Can access a URL category database of over 120 million URLs to manage access by URL category, such as blocking malicious URLs and accelerating access to specified categories. |
| Behavior and Content Audit | Audits and traces the sources of URL access based on the user IP address and requested content. |
| Load Balancing | Supports server load balancing and link load balancing, fully utilizing existing network resources. |
| Intelligent Uplink Selection | Supports service-specific PBR and intelligent uplink selection based on multiple load balancing algorithms (for example, based on bandwidth ratio and link health status) in multi-homing scenarios. |
| VPN Encryption | Supports multiple highly reliable VPN features, such as IPsec VPN, SSL VPN, L2TP VPN, and GRE. Supports IPsec intelligent link selection and dynamic IPsec tunnel switchover to improve link availability. |
| SSL Encrypted Traffic Detection | Serves as a proxy to detect and defend against threats in SSL-encrypted traffic using application-layer protection methods such as intrusion prevention, antivirus, data filtering, and URL filtering. |
| Anti-DDoS | Defends against more than 10 types of common DDoS attacks, including SYN flood and UDP flood attacks. |
| User Authentication | Supports multiple user authentication methods, including local, RADIUS, HWTACACS, SecurID, AD, CA, LDAP, and Endpoint Security. |
| CPU attack defense | Supports different upload rates for different protocol packets to avoid the impact of the CPU by a large number of protocol packets and to protect the CPU. |
| Security Virtualization | Allows users to create and manage virtual security services, including firewall, intrusion prevention, and antivirus services, on the same physical device. |
| Policy Management | Provides predefined common-scenario defense templates to facilitate security policy deployment. Automatically evaluates risks in security policies and provides tuning suggestions. Detects redundant and conflicting policies to remove unnecessary and incorrect policies. |
| | Provides the firewall policy management solution in partnership with FireMon to reduce O&M costs and potential faults.* |
| Diversified Reports | Provides visualized and multi-dimensional reports by user, application, content, time, traffic, threat, and URL. ¹ |
| Piversined hepotis | Generates network security analysis reports on the Huawei security center platform to evaluate the current network security status and provide optimization suggestions.* |
| Routing | Supports IPv4 static routes, policy-based routing, routing policies, multicast, RIP, OSPF, BGP, and IS-IS. Supports IPv6 static routes, policy-based routing, routing policies, RIPng, OSPFv3, BGP4+, and IPv6 IS-IS. |

| Function | Description |
|---------------------------------------|---|
| Working Mode and High Availability | Supports multiple working modes (transparent, routing, and hybrid), high availability modes (active/active and active/standby), and link high-availability technologies (IP-Link, BFD, and Link-group). |
| | Built-in Web UI: Provides abundant device management and maintenance functions, including log report, configuration, and troubleshooting. |
| | eSight network management: Manages the performance, alarms, resources, configurations, and topology of the entire network. |
| Device Management Capability | Agile Controller: Implements application- and user-specific security policy control in the Huawei SDN Agile Network Solution.* |
| | LogCenter security event management system: Provides functions such as security posture awareness, report management, log audit, and centralized alarm management. |
| | API: Supports both NETCONF* and RESTCONF northbound APIs to enable users to centrally configure and maintain firewalls via an upper-level controller to simply the O&M. |

^{1:} If no hard disk is inserted, you can view and export system and service logs. By inserting a hard disk, you can also view, export, customize, and subscribe to reports.

Functions marked with * are supported only in USG V500R001 and later versions.

Specifications *

System Performance and Capacity

| Model | USG6650 | USG6660 | USG6670 | USG6680 |
|--|----------------|----------------|----------------|----------------|
| IPv4 Firewall Throughput ¹ (1518/512/64-byte, UDP) | 20/20/8 Gbit/s | 25/25/8 Gbit/s | 35/35/8 Gbit/s | 40/35/8 Gbit/s |
| IPv6 Firewall Throughput ¹ (1518/512/84-byte, UDP) | 20/20/8 Gbit/s | 25/25/8 Gbit/s | 35/35/8 Gbit/s | 40/35/8 Gbit/s |
| Firewall Throughput (Packets Per Second) | 12 Mpps | 12 Mpps | 12 Mpps | 12 Mpps |
| Firewall Latency (64-byte, UDP) | 16 µs | 16 µs | 16 µs | 16 µs |
| FW + SA* Throughput ² | 15 Gbit/s | 18 Gbit/s | 19 Gbit/s | 20 Gbit/s |
| FW + SA* Throughput (Realworld) ³ | 11 Gbit/s | 12 Gbit/s | 13 Gbit/s | 18 Gbit/s |
| FW + SA + IPS Throughput ² | 8.8 Gbit/s | 8.8 Gbit/s | 8.8 Gbit/s | 15 Gbit/s |
| FW + SA + Antivirus Throughput ² | 8 Gbit/s | 8 Gbit/s | 8 Gbit/s | 13 Gbit/s |
| FW + SA + IPS + Antivirus + URL Throughput ² | 6 Gbit/s | 7 Gbit/s | 8 Gbit/s | 13 Gbit/s |
| FW + SA + IPS + Antivirus Throughput (Realworld) ³ | 5 Gbit/s | 5.5 Gbit/s | 6 Gbit/s | 11 Gbit/s |
| Concurrent Sessions (HTTP1.1) ¹ | 8,000,000 | 10,000,000 | 10,000,000 | 12,000,000 |
| New Sessions/Second (HTTP1.1) ¹ | 300,000 | 350,000 | 400,000 | 400,000 |
| IPsec VPN Throughput ¹ (AES-128 + SHA1, 1420-byte) | 15 Gbit/s | 18 Gbit/s | 18 Gbit/s | 18 Gbit/s |

| Model | USG6650 | USG6660 | USG6670 | USG6680 |
|---|---|------------|------------|-------------------|
| Maximum IPsec VPN Tunnels (GW to GW) | 15,000 | 15,000 | 15,000 | 15,000 |
| Maximum IPsec VPN Tunnels (Client to GW) | 15,000 | 15,000 | 15,000 | 15,000 |
| SSL Inspection Throughput⁴ | 711 Mbps | 800 Mbps | 800 Mbps | 1.5 Gbps |
| SSL VPN Throughput ⁵ | 1.5 Gbit/s | 1.5 Gbit/s | 1.6 Gbit/s | 1.6 Gbit/s |
| Concurrent SSL VPN Users (Default/Maximum) | 100/5,000 | 100/5,000 | 100/5,000 | 100/5,000 |
| Security Policies (Maximum) | 40,000 | 40,000 | 40,000 | 40,000 |
| Virtual Firewalls (Default/Maximum) | 10/500 | 10/500 | 10/500 | 10/1,000 |
| URL Filtering: Categories | More than 130 | | | |
| URL Filtering: URLs | Can access a database of over 120 million URLs in the cloud | | | |
| Automated Threat Feed and IPS Signature Updates | Yes, an industry-leading security center from Huawei (http://sec.huawei.com/sec/web/index.do) | | | |
| Third-Party and Open-Source Ecosystem ⁶ | Open APIs for integration with third-party products through RESTCONF and NETCONF interfaces Other third-party management software based on SNMP, SSH, and syslog Collaboration with third-party tools, such as FireMon Collaboration with Anti-APT solution | | | |
| Centralized Management | Centralized configuration, logging, monitoring, and reporting is performed by Huawei eSight and LogCenter | | | g is performed by |
| VLANs (maximum) | 4,094 | | | |
| VLANIF Interfaces (Maximum) | 4,094 | | | |
| High Availability Configurations | Active/Active, Active/Standby | | | |

- 1. Performance is tested under ideal conditions based on RFC 2544 and RFC 3511. The actual result may vary with deployment environments.
- 2. Antivirus, IPS, and SA performances are measured using 100 KB of HTTP files.
- ${\it 3. Throughput is measured with the Enterprise Traffic Model}.$
- $4. \ SSL \ inspection \ throughput \ is \ measured \ with \ IPS-enabled \ and \ HTTPS \ traffic \ using \ TLS \ v1.2 \ with \ AES256-SHA.$
- 5. SSL VPN throughput is measured using TLS v1.2 with AES128-SHA.
- $6. \ USG 6000 \ V100R001 \ supports \ only \ the \ RESTCONF \ interface \ and \ cannot \ interwork \ with \ sandbox \ or \ third-party \ tools.$
- * SA indicates Service Awareness.
- * This content is applicable only to regions outside mainland China. Huawei reserves the right to interpret this content.

Hardware Specifications

| Model | USG6650 | USG6660 | USG6670 | USG6680 |
|---------------------------|--|---------|-----------------------------------|---------------------|
| Dimensions (H x W x D) mm | 130.5 x 442 x 470 | | 130.5 x 442 x 470 | |
| Form Factor/Height | 3U | | 3U | |
| Fixed Interfaces | 2 x 10 GE (SFP+) + 8 x GE (RJ45) + 8 x GE (SFP) | | 4 x 10 GE (SFP+) + 16 GE (SFP) | 6 x GE (RJ45) + 8 x |
| USB2.0 Port | 2 x USB Ports | | 2 x USB Ports | |

| Model | USG6650 | USG6660 | USG6670 | USG6680 | |
|---|---|----------------------------------|---|---------------------------------------|--|
| Expansion Slot | 6 WSIC* | | 5 WSIC | AC: 5 WSIC DC: 3 WSIC ¹ | |
| Expansion I/O | WSIC: 2 x 10 GE (SFP | +) + 8 x GE (RJ45), 8 x (| GE (RJ45), 8 x GE (SFP), 4 x GE (RJ45) BYPASS | | |
| Maximum Number of Interfaces | 56 x GE (RJ45) + 14 x GE (SFP) or 56 x G (SFP+) + 8 x GE (RJ4 | E (SFP) + 2 x 10GE | 56 x GE (RJ45) + 14 x 10GE (SFP+) + 8 x GE (SFP) or 48 x GE (SFP) + 4 x 10GE (SFP+) + 16 x GE (RJ45) ² | | |
| MTBF | 27.07 years | | 23.67 years | 19.18 years | |
| Weight (Full Configuration) | 24 kg | | 24 kg | 26 kg | |
| Local Storage | Optional. Supports 3 | B00 GB or 600GB ³ har | d disks (RAID1 and ho | t-swappable). | |
| AC Power Supply | 100V to 240V, 50/6 | 0Hz | | | |
| DC Power Supply | NA | -48V to -60V | | | |
| Power Supplies | Dual AC Power Supply Dual AC or dual DC p | | power supplies | | |
| Maximum Power | 350W | | 350W | AC: 700W DC: 350W | |
| Power Consumption (Average/Maximum) | 132W/350W | | 152W/350W | 190W/419W | |
| Heat Dissipation | 1194 BTU/h | | 1194 BTU/h | 1429 BTU/h | |
| Operating Environment (Temperature/Humidity) | Temperature: 0°C to 45°C (without optional HDD); 5°C to 40°C (with optional HDD) Humidity: 5% to 95% (without optional HDD), non-condensing; 5% to 90% (with optional HDD), non-condensing | | | | |
| Non-operating Environment | Temperature: -40°C to +70°C Humidity: 5% to 95% (without optional HDD), non-condensing; 5% to 90% (with optional HDD), non-condensing | | | | |
| Operating Altitude (maximum) | 5,000 meters (without optional HDD); 3,000 meters (with optional HDD) 5,000 meters (without optional HDD); 3,000 meters (with optional HDD) | | | nal HDD) | |
| Non-operating Altitude (maximum) | | | | nal HDD) | |
| Noise | 64.2 dBA | | | | |

- 1. With DC power input, the USG6680 supports up to three WSICs without 2XG8GE or two WSICs with 2XG8GE.
- 2. USG6680 (DC): 40 x GE (RJ45) + 4 x 10 GE (SFP+) + 8 x GE (SFP) or 32 x GE (SFP) + 4 x 10 GE (SFP+) + 16 x GE (RJ45).
- 3. The 600 GB hard disk is supported only in USG V500R001 and later versions and is not supported in USG6680 DC model. *WISC is not hot-swappable.

Certifications

| | Certifications | | |
|---|----------------|---|--|
| ICSA Labs: Firewall, IPS, IPsec, SSL VPN Software CC: EAL4+ NSS Labs: Recommended (USG6650) | | CC: EAL4+ | |
| | Hardware | CB, CE-SDOC, ROHS, REACH&WEEE(EU), RCM, ETL, FCC&IC, VCCI, BSMI | |

Regulatory, Safety, and EMC Compliance

| Certifications | Certifications | | |
|-----------------------|---|--|--|
| Regulatory Compliance | Products comply with CE markings per directives 2014/30/EU and 2014/35/EU. | | |
| Safety | UL 60950-1 CSA-C22.2 No. 60950-1 EN 60950-1 IEC 60950-1 | | |
| EMC: Emissions | CNS 13438 Class A EN 55022 Class A CISPR 22 Class A ETSI EN 300 386 AS/NZS CISPR 22 CAN/CSA-CISPR 22-10 IEC 61000-6-4/EN 61000-6-4 IEC 61000-3-2/EN 61000-3-2 IEC 61000-3-3/EN 61000-3-3 FCC CFR47 Part 15 Subpart B Class A ICES-003 Class A VCCI V-3 Class A | | |
| EMC: Immunity | CNS 13438 Class A EN 55024 CISPR 24 ETSI EN 300 386 IEC 61000-6-2/EN 61000-6-2 | | |

Ordering Guide

| Product | Model | Description |
|-------------|----------------|--|
| USG6650 | USG6650-AC | USG6650 AC Host(8GE(RJ45)+8GE (SFP)+2*10GE(SFP+), 16G Memory, 2 AC Power) |
| USG6650-BDL | USG6650-BDL-AC | USG6650 AC Host(8GE(RJ45)+8GE (SFP)+2*10GE(SFP+), 16G Memory, 2 AC Power, with IPS-AV-URL Function Group Update Service Subscribe 12 Months) |
| USG6660 | USG6660-AC | USG6660 AC Host(8GE(RJ45)+8GE(SFP)+2*10GE(SFP+), 16G Memory, 2 AC Power) |
| USG6660-BDL | USG6660-BDL-AC | USG6660 AC Host(8GE(RJ45)+8GE(SFP)+2*10GE(SFP+), 16G Memory, 2 AC Power, with IPS-AV-URL Function Group Update Service Subscribe 12 Months) |
| USG6660 | USG6660-DC | USG6660 DC Host(8GE(RJ45)+8GE(SFP)+2*10GE(SFP+), 16G Memory, 2 DC Power) |
| USG6670 | USG6670-AC | USG6670 AC Host(16GE(RJ45)+8GE(SFP)+4*10GE(SFP), 16G Memory, 2 AC Power) |
| USG6670-BDL | USG6670-BDL-AC | USG6670 AC Host(16GE(RJ45)+8GE(SFP)+4*10GE(SF P), 16G Memory, 2 AC Power, with IPS-AV-URL Function Group Update Service Subscribe 12 Months) |

| Product | Model | Description |
|-----------------------------|-----------------------|--|
| USG6670 | USG6670-DC | USG6670 DC Host(16GE(RJ45)+8GE(SFP)+4*10GE(SFP), 16G Memory, 2 DC Power) |
| USG6680 | USG6680-AC | USG6680 AC Host(16GE(RJ45)+8GE(SFP)+4*10GE(SFP+), 16G Memory, 2 AC Power) |
| USG6680-BDL | USG6680-BDL-AC | USG6680 AC Host(16GE(RJ45)+8GE(SFP)+4*10GE(SFP+), 16G Memory, 2 AC Power, with IPS-AV-URL Function Group Update Service Subscribe 12 Months) |
| USG6680 | USG6680-DC | USG6680 DC Host(16GE(RJ45)+8GE(SFP)+4*10GE(SFP+), 16G Memory, 2 DC Power) |
| Business Module Group | | |
| WSIC | WSIC-8GE | 8GE Electric Ports Interface Card |
| | WSIC-4GEBYPASS | 4GE Electric Ports Bypass Card |
| | WSIC-8GEF | 8GE Optical Ports Interface Card |
| | WSIC-2XG8GE | 2*10GE Optical Ports+8GE Electric Ports Interface Card |
| Hard Disk Group | | |
| | SM-HDD-SAS300G-A | 300GB 10K RPM SAS Hard Disk Unit |
| HDD | SM-HDD-SAS600G-A | 600GB 10K RPM SAS Hard Disk Unit(only for USG6650-AC/DC, USG6660-AC/DC, USG6670-AC/DC, USG6680-AC) |
| Function License | | |
| | LIC-VSYS-10-USG6000 | Quantity of Virtual Firewall (10 Vsys) |
| Virtual Firewall | LIC-VSYS-20-USG6000 | Quantity of Virtual Firewall (20 Vsys) |
| | LIC-VSYS-50-USG6000 | Quantity of Virtual Firewall (50 Vsys) |
| | LIC-VSYS-100-USG6000 | Quantity of Virtual Firewall (100 Vsys) |
| | LIC-VSYS-200-USG6000 | Quantity of Virtual Firewall (200 Vsys) |
| | LIC-VSYS-500-USG6000 | Quantity of Virtual Firewall (500 Vsys) |
| | LIC-VSYS-1000-USG6000 | Quantity of Virtual Firewall (1000 Vsys) |
| SSL VPN Concurrent Users | LIC-SSL-100-USG6000 | Quantity of SSL VPN Concurrent Users(100 Users) |
| | LIC-SSL-200-USG6000 | Quantity of SSL VPN Concurrent Users(200 Users) |
| | LIC-SSL-500-USG6000 | Quantity of SSL VPN Concurrent Users(500 Users) |
| | LIC-SSL-1000-USG6000 | Quantity of SSL VPN Concurrent Users(1000 Users) |
| | LIC-SSL-2000-USG6000 | Quantity of SSL VPN Concurrent Users(2000 Users) |
| | LIC-SSL-5000-USG6000 | Quantity of SSL VPN Concurrent Users(5000 Users) |
| NGFW License | | |
| IPS Update Service | LIC-IPS-12-USG6600 | IPS Update Service Subscribe 12 Months |
| | LIC-IPS-36-USG6600 | IPS Update Service Subscribe 36 Months |
| | | |



| Product | Model | Description | |
|---------------------------------|-------------------------|--|--|
| URL Filtering Update Service | LIC-URL-12-USG6600 | URL Filtering Update Service Subscribe 12 Months | |
| | LIC-URL-36-USG6600 | URL Filtering Update Service Subscribe 36 Months | |
| Anti-Virus Update Service | LIC-AV-12-USG6600 | Anti-Virus Update Service Subscribe 12 Months | |
| | LIC-AV-36-USG6600 | Anti-Virus Update Service Subscribe 36 Months | |
| IPS-AV-URL Function Group | LIC-IPSAVURL-12-USG6600 | IPS-AV-URL Function Group Subscribe 12 Months | |
| | LIC-IPSAVURL-36-USG6600 | IPS-AV-URL Function Group Subscribe 36 Months | |
| Basic License | | | |
| Content Filtering | LIC-CONTENT | Content Filtering Function | |

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