

FireEye Network Security

Effective protection against cyber breaches for midsize to large organizations

OVERVIEW

FireEye Network Security is an effective cyber threat protection solution that helps organizations minimize the risk of costly breaches by accurately detecting and immediately stopping advanced, targeted and other evasive attacks hiding in Internet traffic. It facilitates efficient resolution of detected security incidents in minutes with concrete evidence, actionable intelligence and response workflow integration. With FireEye Network Security, organizations are effectively protected against today's threats whether they exploit Microsoft Windows or Apple OS X operating systems or application vulnerabilities; are directed at the headquarters or branch offices; or are hidden in a large volume of inbound Internet traffic that has to be inspected in real time.

At the core of FireEye Network Security are the Multi-Vector Virtual Execution™ (MVX) and Intelligence-Driven Analysis (IDA) technologies. MVX is a signature-less, dynamic analysis engine that inspects suspicious network traffic to identify attacks that evade traditional signature- and policy-based defenses. IDA is a collection of contextual, dynamic rules engines that detects and blocks malicious activity in real-time and retroactively, based on the latest machine-, attacker- and victim-intelligence. FireEye Network Security also includes intrusion prevention system (IPS) technology to detect common attacks using conventional signature matching.

FireEye Network Security is available in a variety of form factor, deployment and performance options. It is typically placed in the path of Internet traffic behind traditional network security appliances such as next-generation firewalls, IPS and secure web gateways (SWG). FireEye Network Security supplements these solutions by rapidly detecting both known and unknown attacks with high accuracy and a low rate of false positives while facilitating an efficient response to each alert.

| Capabilities | Benefits |
|---|--|
| Detection | |
| Accurate detection of advanced, targeted and other evasive cyber attacks | Minimizes risk of costly cyber breaches |
| Extensible, modular security architecture | Provides investment protection |
| Consistent level of protection for multi-OS environments and all Internet access points | Creates a strong defense across the entire organization for all types of devices |
| Integrated, distributed, physical, virtual, on-premise and cloud deployment options | Offers flexibility to align with organizational preferences and resources |
| Multi-vector correlation with Email and Content Security | Provides visibility across wider attack surface |
| Prevention | |
| Immediate blocking of attacks at line rates from 10 Mbps to 8 Gbps | Gives real-time protection against evasive attacks |
| Response | |
| Low rate of false alerts, riskware categorization and automated IPS alert validation | Reduces operational cost of triaging unreliable alerts |
| Pivot to investigation and alert validation, endpoint containment and incident response | Automates and simplifies security workflows |
| Execution evidence and actionable threat intelligence with contextual insight | Accelerates prioritization and resolution of detected security incidents |
| Scalability from one site to thousands of sites | Supports business growth |

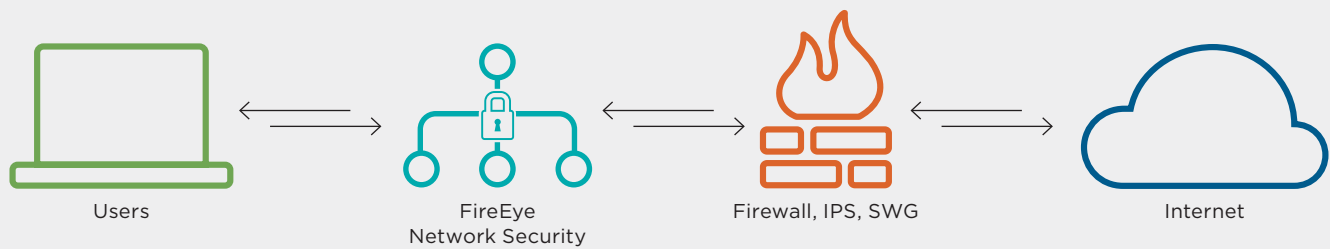


Figure 1. Typical configuration — Network Security solutions.

Technical Advantages

Accurate Threat Detection

FireEye Network Security uses multiple analysis techniques to detect attacks with high accuracy and a low rate of false alerts:

- **Multi-Vector Virtual Execution™ (MVX)** engine detects zero-day, multi-flow and other evasive attacks with dynamic, signature-less analysis in a safe, virtual environment. It stops infection and compromise phases of the cyber-attack kill chain by identifying never-before-seen exploits and malware.
- **Intelligence-Driven Analysis (IDA)** engines detect and block obfuscated, targeted and other customized attacks with contextual, rule-based analysis from real-time insights gathered on the front lines from millions of MVX verdicts, thousands of hours of incident response experience gathered by Mandiant, a FireEye company and hundreds of iSight threat researchers. It stops infection, compromise and intrusion phases of the cyber-attack kill chain by identifying malicious exploits, malware and command and control (CnC) callbacks. It also extracts and submits suspicious network traffic to the MVX engine for a definitive verdict analysis.
- **Structured Threat Intelligence eXpression (STIX)** allows the ingestion of third-party threat intelligence using an industry-standard format to add custom threat indicators into the IDA engines.

Immediate and Resilient Protection

FireEye Network Security offers flexible configuration modes including:

- Out-of-band monitoring via a TAP/SPAN, inline monitoring or inline active blocking. Inline blocking mode automatically blocks inbound exploits and malware and outbound multi-protocol callbacks. In inline monitoring mode, alerts are generated and organizations decide how to respond to them. In out-of-band prevention mode, FireEye Network Security issues TCP resets for out-of-band blocking of TCP, UDP or HTTP connections.

- Integration with the FireEye Active Fail Open (AFO) switch to ensure no network interruption.
- Selected models offer an active high availability (HA) option to provide resilience in case of network or device failures.

Wide Attack Surface Coverage

FireEye Network Security delivers a consistent level of protection for today's diverse network environments:

- Support for most common Microsoft Windows and Apple Mac OS X operating systems
- Analysis of over 140 different file types, including portable executables (PEs), web content, archives, images, Java, Microsoft and Adobe applications and multimedia
- Execution of suspicious network traffic against thousands of operating system, service pack, application type and application version combinations

Validated and Prioritized Alerts

In addition to detecting genuine attacks, FireEye MVX technology is also used to determine the reliability of alerts detected by conventional signature-matching methods and to identify and prioritize critical threats:

- Intrusion prevention system (IPS) with MVX engine validation reduces the time required to triage signature-based detection that is traditionally prone to false alerts
- Riskware categorization separates genuine breach attempts from undesirable, but less malicious activity (such as adware and spyware) to prioritize alert response

Actionable Threat Insights

Alerts generated by FireEye Network Security include concrete evidence and contextual intelligence to quickly respond to prioritize and contain a threat:

- **Dynamic Threat Intelligence (DTI):** concrete, real-time, globally-shared data to quickly and proactively stop targeted and newly discovered attacks
- **Advanced Threat Intelligence (ATI):** contextual insights about the attack to accelerate response and prescriptive guidance to contain the threat

Response Workflow Integration

FireEye Network Security can be augmented in several ways to automate alert response workflows:

- FireEye Central Management correlates alerts from both FireEye Network Security and FireEye Email Security for a broader view of an attack and to set blocking rules that prevent the attack from spreading further
- FireEye Network Forensics integrates with FireEye Network Security to provide detailed packet captures associated with an alert and enable in-depth investigations
- FireEye Endpoint Security identifies, validates and contains compromises detected by FireEye Network Security to simplify containment and remediation of affected endpoints

Flexible Deployment Options

FireEye Network Security offers various deployment options to match an organization's needs and budget:

- **Integrated Network Security:** standalone, all-in-one hardware appliance with integrated MVX service to secure an Internet access point at a single site. FireEye Network Security is an easy-to-manage, clientless platform that deploys in under 60 minutes. It doesn't require rules, policies or tuning.
- **Distributed Network Security:** extensible appliances with centrally shared MVX service to secure Internet access points within organizations
 - **Network Smart Node:** physical or virtual appliances that analyze Internet traffic to detect and block



Figure 2. Examples of Integrated Network Security include NX 2550, NX 3500, NX 5500, NX 10450.

malicious traffic and submit suspicious activity over an encrypted connection to the MVX service for definitive verdict analysis

- **MXV Smart Grid:** on-premise, centrally located, elastic MVX service that offers transparent scalability, built-in N+1 fault tolerance and automated load balancing
- **FireEye Cloud MVX:** FireEye-hosted MVX service subscription that ensures privacy by analyzing traffic on the Network Smart Node. Only suspicious objects are sent over an encrypted connection to the MVX service, where objects revealed as benign are discarded.

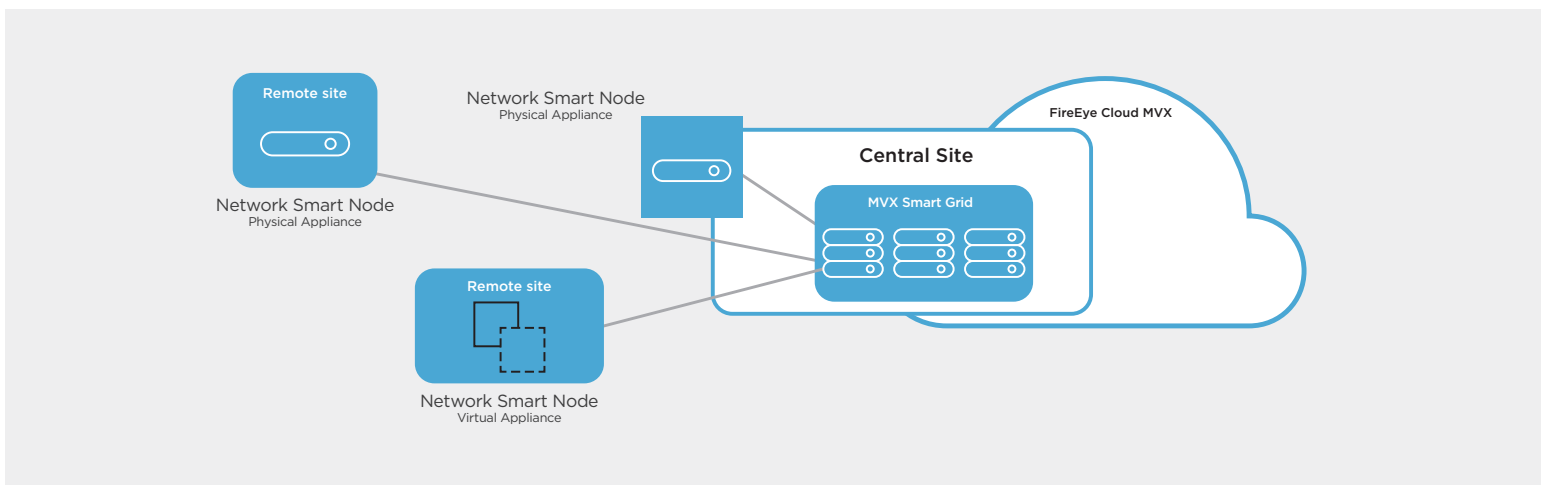


Figure 3. Distributed deployment models for Network Security.

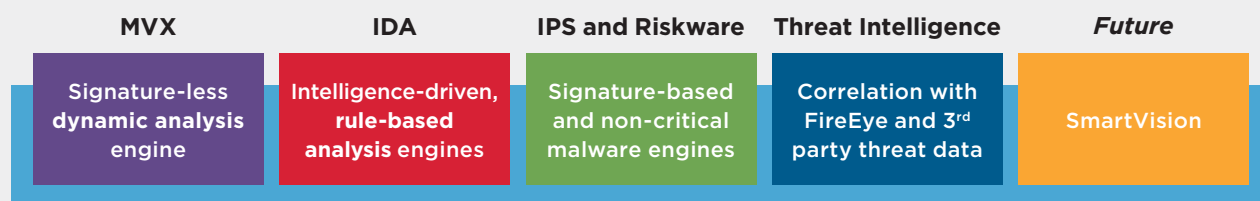


Figure 4. Modular components of FireEye Network Security.

Extensible Architecture

FireEye Network Smart Nodes feature a modular and extensible software architecture and system design to deliver multiple threat protection capabilities as software modules.

High Performance and Scalability

FireEye Network Security protects Internet access points at line rate with performance options for a wide variety of branch and central office sizes:

| Form Factor | Performance |
|-----------------------------|-------------------|
| Integrated Network Security | 50 Mbps to 4 Gbps |
| Physical Network Smart Node | 50 Mbps to 8 Gbps |
| Virtual Network Smart Node | 50 Mbps to 1 Gbps |

The MVX Smart Grid and FireEye Cloud MVX scalable architecture allows the MVX service to support one Network Smart Node to thousands and scale seamlessly as needed.

Business Benefits

Designed to meet the needs of single-site and distributed multi-site organizations, FireEye Network Security delivers several benefits:

Minimizes Risk of Cyber Breaches

FireEye Network Security is a highly-effective cyber defense solution that:

- Prevents intruders from breaking into an organization to steal valuable assets or disrupt business by stopping advanced, targeted and other evasive attacks
- Stops attacks and contains intrusions faster with concrete evidence, actionable intelligence, inline blocking and response workflow automation
- Eliminates weak points from an organization's cyber defenses with consistent protection for various operating systems, application types, branches and central sites

Short Payback Period

According to a recent Forrester Consulting study,¹ FireEye Network Security customers can expect a 152% ROI savings over three years and payback on their initial investment in just 9.7 months. FireEye Network Security:

- Focuses security team resources on real attacks to reduce operational expenses
- Optimizes capital spend with a shared MVX service and a large variety of performance points to rightsize deployment to meet requirements
- Future-proofs security investment by scaling smoothly when the number of branches or the amount of Internet traffic grows
- Protects existing investments by allowing cost-free migration from an integrated to a distributed deployment
- Reduces future capital outlay with modular and extensible architecture

Awards and Certifications

The FireEye Network Security product portfolio has been awarded a number of industry and government awards and certifications:

- In 2016, Frost & Sullivan recognized FireEye as the undisputed market leader with 56% market share, more than the next ten competitors combined²
- FireEye Network Security has been a recipient of numerous awards from SANS Institute, SC Magazine, CRN and others
- FireEye Network Security was the first security solution on the market to receive the US Department of Homeland Security SAFETY Act Certification



¹ Forrester (May 2016). The Total Economic Impact of FireEye.

² Frost & Sullivan (October 2016). Network Security Sandbox Market Analysis

Table 1. FireEye Network Security specifications, integrated appliance.

| | NX 2500 | NX 2550 | NX 3500 | NX 4500 | NX 5500 | NX 10450 | NX10550 |
|---|--|--|--|--|--|--|---|
| User Count | 500 or 1,000 | 3,000 | 5,000 | 10,000 | 25,000 | 40,000 | 40,000 |
| OS Support | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows | Microsoft Windows Mac OS X |
| Performance * | Up to 50 Mbps or 100 Mbps | Up to 250 Mbps | Up to 500 Mbps | Up to 1 Gbps | Up to 2.5 Gbps | Up to 4 Gbps | Up to 4Gbps |
| Network Monitoring Ports | 4x 10/100/1000 BASE-T Ports (in front panel) | 4x 10GigE SFP+ 4x 1GigE Bypass | 4x 10GigE SFP+ 4x 1GigE Bypass | 2x 4x 10GigE SFP+ 4x 1GigE Bypass | 2x 4x 10GigE SFP+ 4x 1GigE Bypass | 8 x SFP+ (4 x 1000base and 4 x 10Gbase), 1000baseSX/ 10GbaseSR (LC, MMF), 1000baseLX/ 10GbaseLR (LC SMF), 1000baseT (RJ45, UTP5), 10GbaseCu (5m direct-attached cable) | 8 x SFP+ (4 x 1000base and 4 x 10Gbase), 1000baseSX/ 10GbaseSR (LC, MMF), 1000baseLX/ 10GbaseLR (LC, SMF), 1000baseT (RJ45, UTP5), 10GbaseCu (5m direct-attached cable) |
| High Availability (HA) | Not Available | Not Available | Not Available | Not Available | Not Available | Active-Passive HA | Active-Passive HA |
| Network Ports Mode of Operation | In-line Monitor, Fail-Open, Fail- Close, or Tap/ Span, HW Bypass | In-line Monitor, Fail-Open, Fail- Close, or Tap/ Span, HW Bypass | In-line Monitor, Fail-Open, Fail- Close, or Tap/ Span, HW Bypass | In-line Monitor, Fail-Open, Fail- Close, or Tap/ Span, HW Bypass | In-line Monitor, Fail-Open, Fail- Close, or Tap/ Span, HW Bypass | In-line Monitor, or Tap/ Span | In-line Monitor or Tap/ Span |
| High Availability (HA) Ports (rear panel) | Not Available | Not Available | Not Available | Not Available | 2x 100/1000/10G Base-T Ports | 2x 100/1000/10G Base-T Ports | 2x 100/1000/10G Base-T Ports |
| Management Ports (rear panel) | 2x 10/100/1000 BASE- T Ports (in front panel) | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 Base-T Ports |
| IPMI Port (rear panel) | Included | Included | Included | Included | Included | Included | Included |
| Front LCD & Keypad | Not Available | Not Available | Not Available | Not Available | Not Available | Included | Included |
| PS/2 Keyboard and Mouse, DB15 VGA Ports (rear panel) | Not Available | VGA port Included | VGA port Included | VGA port Included | VGA port Included | Included | Included (no PS/2 Keyboard and Mouse) |
| USB Ports (rear panel) | 2x Type A USB Ports (front panel) | 2x Type A USB Ports | 2x Type A USB Ports | 2x Type A USB Ports | 2x Type A USB Ports | 2x Type A USB Ports | 2x Type A USB Ports |
| Serial Port (rear panel) | 115,200 bps, No Parity, 8 bits, 1 Stop Bit (RJ45 connector RJ45-to-Dsub adapter cable is included) | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit | 115,200 bps, No Parity, 8 bits, 1 Stop Bit |
| Drive Capacity | Single 1TB 3.5 inch, SATA HDD, internal, fixed | 4 TB 2 x 4TB HDD, 3.5", SAS3, 7.2krpm, RAID1 | 4 TB 2 x 4TB HDD, 3.5", SAS3, 7.2krpm, RAID1 | 4 TB 2 x 4TB HDD, 3.5", SAS3, 7.2krpm, RAID1 | 4 TB 2 x 4TB HDD, 3.5", SAS3, 7.2krpm, RAID1 | 4x 800 GB SSD, RAID 10, 2.5 inch, FRU | 4 x 960GB SSD, RAID 10, 2.5 inch, FRU |
| Enclosure | 1RU, Fits 19 inch Rack | 1RU, Fits 19-inch Rack | 2RU, Fits 19-inch Rack | 2RU, Fits 19-inch Rack | 2RU, Fits 19-inch Rack | 2RU, Fits 19 inch Rack | 2RU, Fits 19 inch Rack |
| Chassis Dimension WxDxH | 17.2in(437mm) x 19.7in(500mm) x 1.7in(43.2 mm) | 17.2in(437mm) x 25.6in(650mm) x 1.7in(43.2mm) | 17.24in(438mm) x 24.41in(620mm) x 3.48in (88.4mm) | 17.24in(438mm) x 24.41in(620mm) x 3.48in(88.4mm) | 17.24in(438mm) x 24.41in(620mm) x 3.48in(88.4mm) | 17.2in(437mm) x 27.9in(709mm) x 3.5in(89mm) | 17.2in(437mm) x 33.5in(851mm) x 3.5in(89mm) |

Table 1. FireEye Network Security specifications, integrated appliance. (continued)

| | NX 2500 | NX 2550 | NX 3500 | NX 4500 | NX 5500 | NX 10450 | NX10550 |
|---|--|--|---|---|---|--|--|
| AC Power Supply | Single 250 watt, 90-264 VAC, 3.5 - 1.5 A, 50-60 Hz, IEC60320-C14, inlet, Internal, Fixed | Redundant (1+1) 750 watt, 100 - 240 VAC 8.0 - 4.5A, 50-60 Hz IEC60320-C14 inlet, FRU | Redundant (1+1) 800 watt, 100 - 240 VAC 10.5 - 4.0A, 50-60 Hz IEC60320-C14 inlet, FRU | Redundant (1+1) 800 watt, 100 - 240 VAC 10.5 - 4.0A, 50-60 Hz IEC60320-C14 inlet, FRU | Redundant (1+1) 800 watt, 100 - 240 VAC 10.5 - 4.0A, 50-60 Hz IEC60320-C14 inlet, FRU | Redundant (1+1) 1200 watt, 100-140 VAC, 14.7 - 10.5 A 1400 watt, 180-240 VAC, 9.5 - 7.2 A, 50-60 Hz, FRU IEC60320-C14 inlet, FRU | Redundant (1+1) 800W: 100-127V, 9.8A-7A 1000W: 220-240V, 7-5A, 50-60Hz, FRU IEC60320-C14 inlet, FRU |
| Power Consumption Maximum (watts) | 85 watts | 265 watts | 426 watts | 519 watts | 658 watts | 850 watts | 760 watts |
| Thermal Dissipation Maximum (BTU/h) | 290 BTU/h | 904 BTU/h | 1,454 BTU/hr | 1,771 BTU/h | 2,245 BTU/h | 2908 BTU/h | 2594 BTU/h |
| MTBF (h) | 56,400 h | 54,200 h | 31,640 h | 20,010 h | 11,870 h | 40,275 h | 36,101 h |
| Appliance Alone / As Shipped Weight lb. (kg) | 16.2 lb (7.3 kg) / 28.2 lb (2.95 kg) | 29.8 lbs (13.5 Kg) / 40.8 lbs (18.5 Kg) | 37.4 lbs (17.0 Kg) / 58.6 lbs (26.6 kg) | 42.4 lbs (19.2 Kg) / 63.5 lbs (28.8 kg) | 42.7 lbs (19.2 Kg) / 63.8 lbs (29.0 kg) | 51 lb. (23 kg) / 66 lb. (30 kg) | 46 lb (21 kg) / 90 lb (40.2 kg) |
| Regulatory Compliance Safety | EN 60950-1, 1:2006+A11:2009+A1:2 010+A12:2011+A2:2013; IEC 60950-1:2005 + Am 1:2009 + Am 2:2013 | IEC 60950-1:2005 (Second Edition) + Am1:2009 + Am 2:2013 EN 60950-1:2006+A11: 2009+A1:2010+A12:20 11+A2:2013 CSA 60950-1-07, Second Edition CAN/CSA-C22.2 No 60950-1-07 + Am1:2011 + Am2:2014 | IEC 60950-1:2005 (Second Edition) + Am1:2009 + Am 2:2013 EN 60950-1:2006+A11: 2009+A1:2010+A12:20 11+A2:2013 UL 60950 CAN/CSA-C22.2 No 60950-1-07, +Am.1:2011 +Am.2:2014 Information Technology Equipment - Safety - Part 1: General Requirements UL 60950-1-2014 | IEC 60950-1:2005 (Second Edition) + Am1:2009 + Am 2:2013 EN 60950-1:2006+A11: 2009+A1:2010+A12:20 11+A2:2013 UL 60950 CAN/CSA-C22.2 No 60950-1-07, +Am.1:2011 +Am.2:2014 Information Technology Equipment - Safety - Part 1: General Requirements UL 60950-1-2014 | IEC 60950-1:2005 (Second Edition) + Am1:2009 + Am 2:2013 EN 60950-1:2006+A11: 2009+A1:2010+A12:20 11+A2:2013 UL 60950 CAN/CSA-C22.2 No 60950-1-07, +Am.1:2011 +Am.2:2014 Information Technology Equipment - Safety - Part 1: General Requirements UL 60950-1-2014 | IEC 60950-1 EN 60950-1 CSA 60950-1 CE Marking | UL 60950-1, CAN/ CSA C22.2 No. 60950-1-07, IEC 60950- 1:2005+ A1:2009+ A2:2013, AS/ NSZ 60950.1-2011 |
| Regulatory Compliance EMC | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN55022 Class A; VCCI V-3 Class A; EN 55024, EN 61000-3-2 Class A; EN 61000-3-3; CNS 13438 (2006) Class A; CISPR22 Class A; AS/NZS CISPR 22 Class A; KN 32; KN 35 | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN55022 Class A; VCCI V-3 Class A; EN 55024; EN 61000-3-2 Class A; EN 61000-3-3; CNS 13438 (2006) Class A; CISPR22 Class A; AS/NZS CISPR 22 Class A; KN 32; KN 35 | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN 61000-3-2 Class A; EN 61000-3-3; CISPR22 Class A; | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN 61000-3-2 Class A; EN 61000-3-3; CISPR22 Class A; | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN 61000-3-2 Class A; EN 61000-3-3; CISPR22 Class A; | FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI (Class A) | FCC Part 15 SubPart B Class A, ICES-003 Class A, EN55022 Class A, VCCI V-3 Class A, EN 55024, EN 61000-3-2 Class A, EN 61000-3-3, CNS 13438 (2006) Class A, CISPR22 Class A, AS/NZS CISPR 22 Class A |
| Security Certifications | (none) | (none) | (none) | (none) | (none) | CC NDPP v1.1 | UL 60950-1, CAN/CSA C22.2 No. 60950-1-07, IEC6060950- 1:2005 +A1:2009+ A2:2013, AS/NSZ 60950.1-2011 |
| Environmental Compliance | RoHS; REACH; WEEE | RoHS; REACH; WEEE | RoHS; REACH; WEEE | RoHS; REACH; WEEE | RoHS; REACH; WEEE | RoHS; REACH; WEEE | RoHS; REACH; WEEE |

Table 1. FireEye Network Security specifications, integrated appliance. (continued)

| | NX 2500 | NX 2550 | NX 3500 | NX 4500 | NX 5500 | NX 10450 | NX10550 |
|--|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|--|
| Operating Temperature | 0° C to 40° C | 0 - 35° C 32 - 95° F | 0 - 35° C 32 - 95° F | 0 - 35° C 32 - 95° F | 0 - 35° C 32 - 95° F | 10° C to 35° C Tested from 0° C to 40° C for additional margin | 10° C to 35° C Tested from 0° C to 40° C for additional margin |
| Non-Operating Temperature | -20° C to 80° C | -40 - 70° C -40 - 158° F | -40 - 70° C -40 - 158° F | -40 - 70° C -40 - 158° F | -40 - 70° C -40 - 158° F | -40° C to 70° C | -40° C to 70° C |
| Operating Relative Humidity | 5% - 85% non-condensing | 10 - 95% @ 40° C, non-condensing | 10 - 95% @ 40° C, non-condensing | 10 - 95% @ 40° C, non-condensing | 10 - 95% @ 40° C, non-condensing | 10% - 85% (non-condensing) | 10% - 85% (non- condensing) |
| Non-Operating Relative Humidity | 5% - 95% (non-condensing) | 10 - 95% @ 60° C, non-condensing | 10 - 95% @ 60° C, non-condensing | 10 - 95% @ 60° C, non-condensing | 10 - 95% @ 60° C, non-condensing | 5% - 95% (non-condensing) | 5% - 95% (non-condensing) |
| Operating Altitude | 5,000 ft | 5,000 ft. | 5,000 ft. | 5,000 ft. | 5,000 ft. | 5,000 ft | 5,000 ft |

Table 2. FireEye Network Security IPS specifications, integrated appliance.

| | NX 2500 | NX 2550 | NX 3500 | NX 4500 | NX 5500 | NX 10450 | NX10550 |
|-----------------------------------|------------------------------|----------|----------------|--------------|----------------|--------------|--------------|
| Max IPS Performance | Up to 50 Mbps or 100 Mbps | 250 Mbps | Up to 500 Mbps | Up to 1 Gbps | Up to 2.5 Gbps | Up to 4 Gbps | Up to 4 Gbps |
| Max Concurrent Connections | 15K or 80K | 80K | 160K | 500K | 1M | 2M | 2M |
| New Connections Per Second | 750/Sec or 4K/Sec | 4K/Sec | 8K/Sec | 10K/Sec | 20K/Sec | 40K/Sec | 40K/Sec |

Table 3. FireEye Network Security smart node, physical specifications.

| | NX 1500 | NX 2500 | NX 2550 | NX 3500 | NX 4500 | NX 5500 | NX 10450 | NX10550 |
|---------------------------------|--------------------------------|--|-----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|--|---|
| User Count | 500 | 1,000 or 2,500 | 3,000 | 5,000 | 10,000 | 25,000 | 80,000 | 80,000 |
| OS Support | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X |
| Performance | Up to 50 Mbps | Up to 100 Mbps or 250 Mbps | Up to 500 Mbps | Up to 1 Gbps | Up to 2 Gbps | Up to 5 Gbps | Up to 8 Gbps | Up to 8 Gbps |
| Network Monitoring Ports | 4x 10/100/1000 BASE-T Ports | 4x 10/100/1000 BASE-T Ports (in front panel) | 4x 10GigE SFP+ 4x 1GigE Bypass | 4x 10GigE SFP+ 4x 1GigE Bypass | 2x 4x 10GigE SFP+ 4x 1GigE Bypass | 2x 4x 10GigE SFP+ 4x 1GigE Bypass | 8 x SFP+ (4 x 1000base and 4 x 10Gbase), 1000baseSX/ 10GbaseSR (LC, MMF), 1000baseLX/ 10GbaseLR (LC SMF), 1000baseT (RJ45, UTP5), 10GbaseCu (5m direct-attached cable) | 8 x SFP+ (4 x 1000base and 4 x 10Gbase), 1000baseSX/ 10GbaseSR (LC, MMF), 1000baseLX/ 10GbaseLR (LC, SMF), 1000baseT (RJ45, UTP5), 10GbaseCu (5m direct-attached cable) |

Table 3. FireEye Network Security smart node, physical specifications. (continued)

| | NX 1500 | NX 2500 | NX 2550 | NX 3500 | NX 4500 | NX 5500 | NX 10450 | NX10550 |
|---|---|--|--|--|--|---|--|---|
| High Availability (HA) | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Active-Passive HA | Active-Passive HA |
| Network Ports Mode of Operation | In-line Monitor, Fail-Close or Tap | In-line Monitor, Fail-Open, Fail- Close or TAP/SPAN, HW Bypass | In-line Monitor, Fail-Open, Fail- Close or TAP/SPAN, HW Bypass | In-line Monitor, Fail-Open, Fail- Close or TAP/SPAN, HW Bypass | In-line Monitor, Fail-Open, Fail- Close or TAP/SPAN, HW Bypass | In-line Monitor, Fail-Open, Fail- Close or TAP/SPAN, HW Bypass | In-line Monitor; TAP; or SPAN | In-line Monitor or TAP/SPAN |
| High Availability (HA) Ports (rear panel) | Not Available | Not Available | Not Available | Not Available | Not Available | 2x 100/1000/10G Base-T Ports | 2x 100/1000/10G Base-T Ports | 2x 100/1000/10G Base-T Ports |
| Management Ports (rear panel) | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 BASE- T Ports (in front panel) | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 BASE- T Ports | 2x 10/100/1000 Base-T Ports |
| IPMI Port (rear panel) | Not Available | Included | Included | Included | Included | Included | Included | Included |
| Front LCD & Keypad | Not Available | Not Available | Included | Included | Included | Included | Included | Included |
| PS/2 Keyboard and Mouse, DB15 VGA Ports (rear panel) | Not Available | Not Available | VGA port Included | VGA port Included | VGA port Included | VGA port Included | Included | Included (no PS/2 Keyboard and Mouse) |
| USB Ports (rear panel) | 2x Type A USB Ports | 2x Type A USB Ports (front panel) | 2x Type A USB Ports | 2x Type A USB Ports | 2x Type A USB Ports | 2x Type A USB Ports | 2x Type A USB Ports | 2x Type A USB Ports |
| Serial Port (rear panel) | 115,200 bps, No Parity, 8 bits, 1 Stop Bit (RJ45 connector; RJ45-to-Dsub adapter cable is included) | 115,200 bps, No Parity, 8 bits, 1 Stop Bit (RJ45 connector RJ45-to-Dsub adapter cable is included) | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit | 115,200 bps, No Parity, 8 bits, 1 Stop Bit |
| Drive Capacity | Single 500GB 2.5 inch SATA HDD, internal, fixed | Single 1TB 3.5 inch SATA HDD, internal, fixed | 4 TB 2 x 4TB HDD, 3.5", SAS3, 7.2krpm, RAID1 | 4 TB 2 x 4TB HDD, 3.5", SAS3, 7.2krpm, RAID1 | 4 TB 2 x 4TB HDD, 3.5", SAS3, 7.2krpm, RAID1 | 4 TB 2 x 4TB HDD, 3.5", SAS3, 7.2krpm, RAID1 | 4x 800 GB SSD, RAID 10, 2.5 inch, FRU | 4 x 960GB SSD, RAID 10, 2.5 inch, FRU |
| Enclosure | 1RU, Desktop formfactor | 1RU, Fits 19 inch Rack | 1RU, Fits 19 inch Rack | 2RU, Fits 19 inch Rack | 2RU, Fits 19 inch Rack | 2RU, Fits 19 inch Rack | 2RU, Fits 19 inch Rack | 2RU, Fits 19 inch Rack |
| Chassis Dimension WxDxH | 11in(280mm) x 6.9in(175mm) x 1.7in(43.2 mm) | 17.2in(437mm) x 19.7in(500mm) x 1.7in(43.2mm) | 17.2in(437mm) x 25.6in(650mm) x 1.7in(43.2mm) | 17.24in(438mm) x 24.41in(620mm) x 3.48in (88.4mm) | 17.24in(438mm) x 24.41in(620mm) x 3.48in(88.4mm) | 17.24in(438mm) x 24.41in(620mm) x 3.48in(88.4mm) | 17.2in(437mm) x 27.9in(709mm) x 3.5in(89 mm) | 17.2in(437mm) x 33.5in(851mm) x 3.5in(89 mm) |
| AC Power Supply | External 60 Watt 12V@5A Ouput AC Adapter, 90-264 VAC, 50-60 Hz, IEC60320-C14, inlet, FRU | Single 250 watt, 90-264 VAC, 3.5 - 1.5 A, 50-60 Hz, IEC60320-C14, inlet, Internal, Fixed | Redundant (1+1) 750 watt, 100 - 240 VAC 9 - 4.5A, 50-60 Hz IEC60320-C14 inlet, FRU | Redundant (1+1) 800 watt, 100 - 240 VAC 9 - 4.5A, 50-60 Hz IEC60320-C14 inlet, FRU | Redundant (1+1) 800 watt, 100 - 240 VAC 9 - 4.5A, 50-60 Hz IEC60320-C14 inlet, FRU | Redundant (1+1) 800 watt, 100 - 240 VAC 10.5 - 4.0A, 50-60 Hz IEC60320-C14 inlet, FRU | Redundant (1+1) 1200 watt, 100-140 VAC, 14.7 - 10.5 A 1400 watt, 180-240 VAC, 9.5 - 7.2 A, 50-60 Hz, FRU IEC60320-C14 inlet, FRU | Redundant (1+1) 800W: 100-127V, 9.8A-7A 1000W: 220-240V, 7-5A, 50-60Hz, FRU IEC60320-C14 inlet, FRU |

Table 3. FireEye Network Security smart node, physical specifications. (continued)

| | NX 1500 | NX 2500 | NX 2550 | NX 3500 | NX 4500 | NX 5500 | NX 10450 | NX10550 |
|---|--|--|--|---|---|---|---|--|
| Power Consumption Maximum (watts) | 27 watts | 85 watts | 265 watts | 426 watts | 519 watts | 658 watts | 850 watts | 760 watts |
| Thermal Dissipation Maximum (BTU/h) | 92 BTU/h | 290 BTU/h | 904 BTU/h | 1454 BTU/h | 1771 BTU/h | 2245 BTU/h | 2908 BTU/h | 2594 BTU/h |
| MTBF (h) | 95,400 h | 56,400 h | 54,200 h | 31,640 h | 20,010 h | 11,870 h | 40,275 h | 36,101 h |
| Appliance Alone / As Shipped Weight lb. (kg) | 3.75 lb (1.7 kg) / 6.5 lb (2.95 kg) | 16.2 lb (7.3 kg) / 28.2 lb (2.95 kg) | 29.8 lbs (13.5 kg) / 40.8 lbs (18.5 Kg) | 37.4 lbs (17.0 kg) / 58.6 lbs (26.6 kg) | 42.4 lbs (19.2 kg) / 63.5 lbs (28.8 kg) | 42.7 lbs (19.2 kg) / 63.8 lbs (29.0 kg) | 51 lb. (23 kg) / 66 lb. (30 kg) | 46 lb (21 kg) / 90 lb (40.2 kg) |
| Regulatory Compliance Safety | EN 60950-1, 1:2006+A11:2009+A1:2010+A12:2011+A2:2013; IEC 60950-1:2005 + Am 1:2009 + Am 2:2013 | EN 60950-1, 1:2006+A11:2009+A1:2010+A12:2011+A2:2013; IEC 60950-1:2005 + Am 1:2009 + Am 2:2013 | IEC 60950 - 1:2005 (Second Edition) + Am1:2009 + Am 2:2013 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 UL 60950 CAN/CSA-C22.2 CSA 60950-1-07, Second Edition CAN/CSA-C22.2 No 60950-1-07 + Am1:2011 + Am2:2014 | IEC 60950 - 1:2005 (Second Edition) + Am1:2009 + Am 2:2013 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 UL 60950 CAN/CSA-C22.2 No 60950-1-07, + Am.1:2011 + Am.2:2014 Information Technology Equipment - Safety - Part 1: General Requirements UL 60950-1-2014 | IEC 60950-1:2005 (Second Edition) + Am1:2009 + Am 2:2013 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 UL 60950 CAN/CSA-C22.2 No 60950-1-07, + Am.1:2011 + Am.2:2014 Information Technology Equipment - Safety - Part 1: General Requirements UL 60950-1-2014 | IEC 60950-1:2005 (Second Edition) + Am1:2009 + Am 2:2013 EN 60950 - 1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 UL 60950 CAN/CSA-C22.2 No 60950-1-07, + Am.1:2011 + Am.2:2014 Information Technology Equipment - Safety - Part 1: General Requirements UL 60950-1-2014 | IEC 60950-1 EN 60950-1 CSA 60950-1 CE Marking | UL 60950-1, CAN/ CSA C22.2 No. 60950-1-07, IEC 60950- 1:2005+ A1:2009+ A2:2013, AS/NSZ 60950.1-2011 |
| Regulatory Compliance EMC | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN55022 Class A; VCCI V-3 Class A; EN 55024; EN 61000-3-2 Class A; EN 61000-3-3; CNS 13438 (2006) Class A; CISPR22 Class A; AS/NZS CISPR 22 Class A; KN 32; KN 35 | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN55022 Class A; VCCI V-3 Class A; EN 55024; EN 61000-3-2 Class A; EN 61000-3-3; CNS 13438 (2006) Class A; CISPR22 Class A; AS/NZS CISPR 22 Class A; KN 32; KN 35 | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN55022 Class A; VCCI V-3 Class A; EN 55024; EN 61000-3-2 Class A; EN 61000-3-3; CNS 13438 (2006) Class A; CISPR22 Class A; AS/NZS CISPR 22 Class A; KN 32; KN 35 | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN 61000-3-2 Class A; EN 61000-3-3; CISPR22 Class A | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN 61000-3-2 Class A; EN 61000-3-3; CISPR22 Class A | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN 61000-3-2 Class A | FCC (Part 15 Class-A), CE (Class-A), CNS, AS/NZS, VCCI(Class A) | FCC Part 15 SubPart B Class A, ICES-003 Class A, EN55022 Class A, VCCI V-3 Class A, EN 55024, EN 61000-3-2 Class A, EN 61000-3-3, CNS 13438 (2006) Class A, CISPR22 Class A, AS/NZS CISPR 22 Class A |
| Security Certifications | - | - | - | - | - | - | CC NDPP v1.1 | UL 60950-1, CAN/CSA C22.2 No. 60950-1-07, IEC60950-1:2005 +A1:2009+ A2:2013, AS/NSZ 60950.1-2011 |
| Environmental Compliance | RoHS; REACH; WEEE | RoHS; REACH; WEEE | RoHS, REACH, WEEE | RoHS, REACH, WEEE | RoHS, REACH, WEEE | RoHS, REACH, WEEE | RoHS, REACH, WEEE | RoHS, REACH, WEEE |
| Operating Temperature | 0° C to 40° C | 0° C to 40° C | 0 - 35° C (32 - 95° F) | 0 - 35° C (32 - 95° F) | 0 - 35° C (32 - 95° F) | 0 - 35° C (32 - 95° F) | 10° C to 35° C Tested from 0° C to 40° C for additional margin | 10° C to 35° C Tested from 0° C to 40° C for additional margin |
| Non-Operating Temperature | -20°C to 80°C | -20°C to 80°C | -40°C to 70°C | -40°C to 70°C | -40°C to 70°C | -40°C to 70°C | -40°C to 70°C | -40°C to 70°C |

Table 3. FireEye Network Security smart node, physical specifications. (continued)

| | NX 1500 | NX 2500 | NX 2550 | NX 3500 | NX 4500 | NX 5500 | NX 10450 | NX10550 |
|--|---------------------------|---------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------|
| Operating Relative Humidity | 5% - 85% (non-condensing) | 5% - 85% (non-condensing) | 10 - 95% @ 40° C, non-condensing | 10 - 95% @ 40° C, non-condensing | 10 - 95% @ 40° C, non-condensing | 10 - 95% @ 40° C, non-condensing | 10% - 85% (non-condensing) | 10% - 85% (non-condensing) |
| Non-Operating Relative Humidity | 5% - 95% (non-condensing) | 5% - 95% (non-condensing) | 10 - 95% @ 60° C, non-condensing | 10 - 95% @ 60° C, non-condensing | 10 - 95% @ 60° C, non-condensing | 10 - 95% @ 60° C, non-condensing | 5% - 95% (non-condensing) | 5% - 95% (non-condensing) |
| Operating Altitude | 5,000 ft | 5,000 ft | 5,000 ft | 5,000 ft | 5,000 ft | 5,000 ft | 5,000 ft | 5,000 ft |

Table 4. FireEye Network smart node IPS, physical specifications.

| | NX 1500 | NX 2500 | NX 2550 | NX 3500 | NX 4500 | NX 5500 | NX 10450 | NX10550 |
|-----------------------------------|---------------|---------------------|----------------|--------------|--------------|--------------|--------------|--------------|
| Max IPS Performance | Up to 50 Mbps | Up to 100 /250 Mbps | Up to 500 Mbps | Up to 1 Gbps | Up to 2 Gbps | Up to 5 Gbps | Up to 8 Gbps | Up to 8 Gbps |
| Max Concurrent Connections | 15K | 80K | 160K | 500K | 1M | 2M | 4M | 4M |
| New Connections Per Second | 750/sec | 4K/Sec | 8K/Sec | 10K/Sec | 20K/sec | 40K/Sec | 80K/Sec | 80K/Sec |

Table 5. FireEye Network smart node, virtual specifications.

| | NXS 1500V | NXS 2500V | NXS 2550V | NXS 4500V | NXS 6500V |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| User Count | 500 | 1,000 | 2,500 | 5,000 | 10,000 |
| OS Support | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X |
| Performance * | Up to 50 Mbps | Up to 100 Mbps | Up to 250 Mbps | Up to 500 Mbps | Up to 1 Gbps |
| Network Monitoring Ports | 1-8 | 1-8 | 1-8 | 1-8 | 1-8 |
| Network Management Ports | 1 or 2 | 1 or 2 | 1 or 2 | 1 or 2 | 1 or 2 |
| Network Ports Mode of Operation | Inline, SPAN | Inline, SPAN | Inline, SPAN | Inline, SPAN | Inline, SPAN |
| CPU Cores | 3 | 6 | 8 | 8 | 16 |
| Memory | 10GB | 16GB | 16GB | 32 GB | 32 GB |
| Drive Capacity | 384 GB | 384 GB | 384 GB | 512 GB | 512 GB |
| Network Adapters | VMXNet 3, vNIC | VMXNet 3, vNIC | VMXNet 3, vNIC | VMXNet 3, vNIC | VMXNet 3, vNIC |
| Hypervisor Support | VMWare ESXi 6.0 or later | VMWare ESXi 6.0 or later | VMWare ESXi 6.0 or later | VMWare ESXi 6.0 or later | VMWare ESXi 6.0 or later |

Table 6. FireEye Network smart node IPS, virtual specifications.

| | NXS 1500V | NXS 2500V | NXS 2550V | NXS 4500V | NXS 6500V |
|-----------------------------------|---------------|----------------|----------------|----------------|--------------|
| Max IPS Performance | Up to 50 Mbps | Up to 100 Mbps | Up to 250 Mbps | Up to 500 Mbps | Up to 1 Gbps |
| Max Concurrent Connections | 15K | 80K | 80K | 160K | 500K |
| New Connections Per Second | 750/Sec | 4K/Sec | 4K/Sec | 8K/Sec | 10K/Sec |

Table 7. FireEye MVX smart grid specifications.

| | VX 5500 | VX 12500 |
|---|--|--|
| OS Support | Microsoft Windows Mac OS X | Microsoft Windows Mac OS X |
| Performance * | Up to 2 Gbps | Up to 8 Gbps |
| High Availability ** | N+1 | N+1 |
| Management Ports (rear panel) | 1x 10/100/1000 BASE- T Ports | 1x 10/100/1000 BASE- T Ports |
| Cluster Ports (rear panel) | 3x 10/100/1000 BASE-T Ports | 1x 10/100/1000 BASE-T Ports, 2x 1000/10G BASE-T Ports |
| IPMI Port (rear panel) | Included | Included |
| Front LCD & Keypad | Not Available | Included |
| PS/2 Keyboard and Mouse, DB15 VGA Ports (rear panel) | Included (no PS/2 Keyboard and Mouse) | Included |
| USB Ports (rear panel) | 4x Type A USB Ports | 2x Type A USB Ports |
| Serial Port (rear panel) | 115,200 bps, No Parity, 8 bits, 1 Stop Bit | 115,200 bps, No Parity, 8 Bits, 1 Stop Bit |
| Drive Capacity | 2x 2TB 3.5 SAS HDD, RAID 1, hot-swappable, FRU | 4 x 900GB HDD, RAID 10, 2.5 inch, FRU |
| Enclosure | 1RU, Fits 19 inch Rack | 2RU, Fits 19 inch Rack |
| Chassis Dimension WxDxH | 17. 2x25.6x1.7 (437 x 650 x 43.2 mm) | 17.2x33.5x3.5 (437 x 851 x 89 mm) |
| DC Power Supply | Not Available | Not Available |
| AC Power Supply | Redundant (1+1) 750 watt, 100-240 VAC, 8 - 3.8 A, 50-60 Hz, IEC60320-C14, inlet, hot-swappable, FRU | Redundant (1+1) 800W: 100-127V, 9.8A-7A 1000W: 220-240V, 7-5A, 50-60Hz, FRU IEC60320-C14 inlet, FRU |
| Power Consumption Maximum (watts) | 285 watts | 760 watts |
| Thermal Dissipation Maximum (BTU/h) | 972 BTU/h | 2594 BTU/h |
| MTBF (h) | 54,200 h | 38,836 h |
| Appliance Alone / As Shipped Weight lb. (kg) | 33 lb (15 kg) / 48 lb (21.8 kg) | 46 lb (21 kg) / 90 lb (40.2 kg) |
| Regulatory Compliance Safety | UL 60950-1-2014; CAN/ CSA C22.2 No. 60950-1-07, Am.1:2011+Am.2:2014; AS/NSZ 60950.1- 2011 | UL 60950-1 CAN/CSA C22.2 No. 60950-1-07 IEC 60950-1:2005+ A1:2009+A2:2013 AS/NSZ 60950.1-2011 |
| Regulatory Compliance EMC | FCC Part 15 SubPart B Class A; ICES-003 Class A; EN55022 Class A; VCCI V-3 Class A; EN 55024; EN 61000-3-2 Class A; EN 61000-3-3; CNS 13438 (2006) Class A; CISPR22 Class A; AS/NZS CISPR 22 Class A; KN 32; KN 35 | FCC Part 15 SubPart B Class A ICES-003 Class A EN 55022 Class A VCCI V-3 Class A EN 55024 EN 61000-3-2 Class A EN 61000-3-3 CNS 13438 (2006) Class A CISPR22 Class A AS/NZS CISPR 22 Class A |
| Environmental Compliance | RoHS; REACH; WEEE | RoHS; REACH; WEEE Conflict Minerals |
| Operating Temperature | 10° C to 35° C Tested from 0° C to 40° C for additional margin | 10° C to 35° C Tested from 0° C to 40° C for additional margin |
| Non-Operating Temperature | -40° C to 70° C | -40° C to 70° C |
| Operating Relative Humidity | 10% - 85% (non-condensing) | 10% - 85% (non-condensing) |
| Non-Operating Relative Humidity | 5% - 95% (non-condensing) | 5% - 95% (non-condensing) |
| Operating Altitude | 5,000 ft | 5,000 ft |

Table 8. Active fail open switch technical specifications.

| | AFO 10G SWITCH |
|---------------------------|--|
| Dimensions (WxDxH) | 6.5 x 14.0 x 1.125 (16.5 x 35.6 x 2.8 cm) |
| Management Ports | (1) DB9 Serial Console, (1) RJ45 Cat5e Port (10/100) |
| Network Ports | (1) Quad LC Connector |
| Monitoring Ports | (2) XFP Ports |
| AC Power Input | 100 ~ 240 VAC, 1.0 A, 47-63 Hz |
| Operating Temp | 0° C to 40° C |

*All performance values vary depending on the system configuration and traffic profile being processed.

** With appropriate redundant hardware configurations

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