

Trellix® 네트워크 보안

기술 사양

개요

Trellix Network Security는 인터넷 트래픽에 숨어 있는 지능형, 표적형, 은폐형 공격을 정확하게 탐지하고 즉시 차단함으로써 기업의 보안 침해 위험을 최소화할 수 있도록 돕는 효과적인 사이버 위협 방어 솔루션입니다. 구체적인 증거, 실행 가능한 인텔리전스, 대응 워크플로우 통합 기능을 통해 감지된 보안 사고를 신속하고 효율적으로 해결할 수 있도록 지원합니다.

Trellix Network Security는 다음과 같은 다양한 위협으로부터 효과적인 보호를 제공합니다:

- Microsoft Windows, Apple OS X 또는 애플리케이션의 취약점을 악용하는 공격
- 본사 또는 지사에 직접적으로 가해지는 공격
- 실시간으로 검사해야 하는 대량의 인바운드 인터넷 트래픽에 숨겨진 위협

Trellix Network Security는 환경에 따라 다양한 폼 팩터, 배포 방식 및 성능 사양으로 유연하게 제공되며, 일반적으로 차세대 방화벽, 침입 방지 시스템(IPS), 보안 웹 게이트웨이(SWG) 등의 기존 네트워크 보안 장비 뒤쪽에 위치합니다.

이 솔루션은 알려진 및 알려지지 않은 공격을 높은 정확도로 빠르게 탐지하고, 오탐률은 낮추며, 각 경고에 대한 효율적인 대응을 가능하게 합니다.

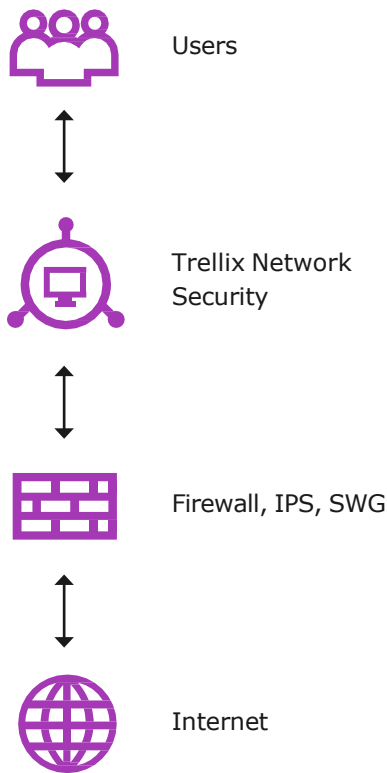


Figure 1. Trellix Network Security 구성 예시

Table 1. Trellix Network Security 사양, (6세대 통합 어플라이언스)

	NX 2600	NX 3600	4600 NX	5600 NX	6600 NX	8600 NX
운영 체제 지원	Linux, macOS X, Microsoft Windows	Linux, macOS X, Microsoft Windows	Linux, macOS X, Microsoft Windows	Linux, macOS X, Microsoft Windows	Linux, macOS X, Microsoft Windows	Linux, macOS X, Microsoft Windows
성능	Up to 250 Mbps	Up to 500 Mbps	Up to 1 Gbps	Up to 2.5 Gbps	Up to 5 Gbps	Up to 10 Gbps
SmartVision 모드 성능	Up to 500 Mbps	Up to 1 Gbps	Up to 2 Gbps	Up to 5 Gbps	Up to 10 Gbps	Up to 20 Gbps
네트워크 모니터링 포트	(4) X 1G RJ45 ports (4) 1G/10G SFP+ Ports	(4) X 1G RJ45 ports (4) 1G/10G SFP+ Ports	4 X 1G RJ45 bypass 4 X 1G/10G SFP+ 4 X 10G SFP+	4 X 1G/10G RJ45 bypass 4 X 1G/10G SFP+ 4 X 10G SFP+	2 X 40G QSFP+ 4 X 10G SFP+ 2 X 1G/10G SFP+ 4 X 1G/10G RJ45 bypass	2 X 40G QSFP+ 4 X 10G SFP+ 2 X 1G/10G SFP+ 4 X 1G/10G RJ45 bypass 2 X 100G QSFP28
네트워크 포트 작동 모드	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN
고가용성(HA)	Available	Available	Available	Available	Available	Available
관리 포트 (후면 패널)	2X 1G RJ45 ports	2X 1G RJ45 ports	2 X 1G	2 X 1G/10G	2 X 1G/10G	2 X 1G/10G
IPMI 포트 (후면 패널)	10/100/1000GBASE-T(Rear panel)	10/100/1000GBASE-T(Rear panel)	10/100/1000GBASE-T(Rear panel)	10/100/1000GBASE-T(Rear panel)	10/100/1000GBASE-T(Rear panel)	10/100/1000GBASE-T(Rear panel)
VGA 포트	Yes	Yes	Yes	Yes	Yes	Yes
USB 포트	2 X USB 2.0 , 2 X USB 3.2	2 X USB 2.0 , 2 X USB 3.2	4 X Type A USB ports (all rear)	2 X Type A USB ports (all rear)	2 X Type A USB ports (all rear)	2 X Type A USB ports (all rear)
직렬 포트 (후면 패널)	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
드라이브 용량	(2) 4 TB HDD, RAID 1, 3.5 inch, FRU	(2) 4 TB HDD, RAID 1, 3.5 inch, FRU	(2) 4 TB HDD, RAID 1, 3.5 inch, FRU	(2) 4 TB HDD, RAID 1, 3.5 inch, FRU	(2) 10 TB HDD, RAID 1, 3.5 inch, FRU	(2) 10 TB HDD, RAID 1, 3.5 inch, FRU
인클로저 형식	1 RU, fits 19-inch Rack	1 RU, fits 19-inch Rack	2RU, Fits 19 inch rack	2RU, Fits 19 inch rack	2RU, Fits 19 inch rack	2RU, Fits 19 inch rack
새시 크기 (가로x깊이x높이)	17.2in (437 mm) X 19.98in (507 mm) X1.7in (43 mm)	17.2in (437 mm) X 19.98in (507 mm) X1.7in (43 mm)	19in (482.6mm) x 26in (660.4mm) x 3.5in (88.9 mm)	19in (482.6mm) x 26.5in (673.1mm) x 3.5in (88.9mm)	19in (482.6mm) x 26.5in (673.1mm) x 3.5in (88.9mm)	19in (482.6mm) x 26.5in (673.1mm) x 3.5in (88.9mm)
AC 전원 공급	Redundant (1+1), FRU, 400W with Input 100-240VAC / 6.0 – 3.0A 200-240VDC / 3.4- 3.2A, 50-60 Hz IEC60320- C14 inlet	Redundant (1+1), FRU, 400W with Input 100-240VAC / 6.0 – 3.0A 200-240VDC / 3.4- 3.2A, 50-60 Hz IEC60320- C14 inlet	Redundant (1+1), FRU, 920W with Input 100-240V, 11-4.4A, 50-60 Hz IEC60320-C14 inlet	Redundant (1+1), FRU, 1000W/1200W with Input 100-127/200-240Vac, 15-12A/8.5-7A,50-60 Hz IEC60320-C14 inlet	Redundant (1+1), FRU, 1000W/1200W with Input 100-127/200-240Vac, 15-12A/8.5-7A, 50-60 Hz IEC60320-C14 inlet	Redundant (1+1), FRU, 1000W/1200W with Input 100-127/200-240Vac, 15-12A/8.5-7A, 50-60 Hz IEC60320-C14 inlet
최대 전력 소비(watts)	300 watts	300 watts	552 watts	852 watts	928 watts	1100 watts

Table 1. Trellix Network Security 사양, (6세대 통합 어플라이언스) (계속)

	NX 2600	NX 3600	4600 NX	5600 NX	6600 NX	8600 NX
최대 열 방출(BTU/h)	1024 BTU/hr	1024 BTU/hr	1883 BTU/h	2905 BTU/h	3164 BTU/h	3751 BTU/h
MTBF (h)	30,376 h	30,376 h	22,984 h	28,458 h	30,416 h	29,911 h
제품 단독 / 배송 시 무게 (lbs /kg)	24 lbs (10.9 kg) / 37 lbs (16.8 kg)	24 lbs (10.9 kg) / 37 lbs (16.8 kg)	39 lbs (17.69 kg) / 65 lbs (29.48 kg)	42 lbs (19.05 kg) / 68 lbs (30.84 kg)	43 lbs (19.5 kg) / 69 lbs (31.3 kg)	43 lbs (19.5 kg) / 69 lbs (31.3 kg)
안전 규제 준수	EN IEC 62368-1:2018+A11:2020	EN IEC 62368-1:2018+A11:2020	CAN/CSA 22.2 No. 62368 UL 62368 IEC 62368 EN 62368 BS EN 62368	CAN/CSA 22.2 No. 62368 UL 62368 IEC 62368 EN 62368 BS EN 62368	CAN/CSA 22.2 No. 62368 UL 62368 IEC 62368 EN 62368 BS EN 62368	CAN/CSA 22.2 No. 62368 UL 62368 IEC 62368 EN 62368 BS EN 62368
보안 인증	FIPS 140-2 Level 1 (pending) CC NDcPP v2.2e (pending)	FIPS 140-2 Level 1 (pending) CC NDcPP v2.2e (pending)	FIPS 140-2 Level 1 (pending) CC NDcPP v2.2e (pending)	FIPS 140-2 Level 1 (pending) CC NDcPP v2.2e (pending)	FIPS 140-2 Level 1 (pending) CC NDcPP v2.2e (pending)	FIPS 140-2 Level 1 (pending) CC NDcPP v2.2e (pending)
EMC 규제 준수	EN 55032:2015/A11:2020, EN 55035:2017/A11:2020, EN 61000-3-2:2014, EN 61000-3-3:2013	EN 55032:2015/A11:2020, EN 55035:2017/A11:2020, EN 61000-3-2:2014, EN 61000-3-3:2013	FCC Part 15 Class-A CE (Class-A) CNS 13438 CISPR 32 VCCI-CISPR32 EN 55035 EN 55032 EN 61000 ICES-003 KN 32 KN 35	FCC Part 15 Class-A CE (Class-A) CNS 13438 CISPR 32 VCCI-CISPR32 EN 55035 EN 55032 EN 61000 ICES-003 KN 32 KN 35	FCC Part 15 Class-A CE (Class-A) CNS 13438 CISPR 32 VCCI-CISPR32 EN 55035 EN 55032 EN 61000 ICES-003 KN 32 KN 35	FCC Part 15 Class-A CE (Class-A) CNS 13438 CISPR 32 VCCI-CISPR32 EN 55035 EN 55032 EN 61000 ICES-003 KN 32 KN 35
환경 규제 준수	RoHS: Directive 2011/65/EU	RoHS: Directive 2011/65/EU	RoHS REACH	RoHS REACH	RoHS REACH	RoHS REACH
작동 온도	5°C - 35°C (41°F - 95°F)	5°C - 35°C (41°F - 95°F)	5-35°C 41-95°F	10-35°C 50-95°F	10-35°C 50-95°F	10-35°C 50-95°F
비작동 온도	-40°C - 70°C (-40°F - 158°F)	-40°C - 70°C (-40°F - 158°F)	-40-70°C -40-158°F	-40-70°C -40-158°F	-40-70°C -40-158°F	-40-70°C -40-158°F
작동 상대 습도	8% - 90% (non-condensing)	8% - 90% (non-condensing)	8-90% non-condensing	8-90% non-condensing	8-90% non-condensing	8-90% non-condensing
비작동 상대 습도	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5-95% non-condensing	5-95% non-condensing	5-95% non-condensing	5-95% non-condensing
작동 고도	0-1,524 m 0-5,000 ft	0-1,524 m 0-5,000 ft	0-1,524 m 0-5,000 ft	0-1,524 m 0-5,000 ft	0-1,524 m 0-5,000 ft	0-1,524 m 0-5,000 ft

Table 2. Trellix Network Security IPS 성능, (6세대 통합 어플라이언스)

	NX 2600	NX 3600	4600 NX	5600 NX	6600 NX	8600 NX
최대 IPS 성능	Up to 250 Mbps	Up to 500 Mbps	1 Gbps	Up to 2.5 Gbps	Up to 5 Gbps	Up to 10 Gbps
최대 동시 연결 수	80K	160K	500 K	1 M	2 M	4 M
초당 신규 연결 수	4K/Sec	8K/Sec	10K / Sec	20K / Sec	40K / Sec	80K / Sec

Table 3. Trellix Network Security smart node, 물리 사양 - 6세대

	2600 NX	3600 NX	4600 NX	5600 NX	6600 NX	8600 NX
운영 체제 지원	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows
성능	Up to 500 Mbps	Up to 1 Gbps	Up to 2 Gbps	Up to 5 Gbps	Up to 10 Gbps	Up to 20 Gbps
SmartVision 모드 성능	Up to 1 Gbps	Up to 2 Gbps	Up to 4 Gbps	Up to 10 Gbps	Up to 20 Gbps	Up to 40 Gbps
네트워크 모니터링 포트	(4) X 1G RJ45 ports	(4) X 1G RJ45 ports	4 X 1G RJ45 bypass 4 X 1G/10G SFP+ 4 X 10G SFP+	4 X 1G/10G RJ45 bypass 4 X 1G/10G SFP+ 4 X 10G SFP+	2 X 40G QSFP+ 4 X 10G SFP+ 2 X 1G/10G SFP+ 4 X 1G/10G RJ45 bypass	2 X 40G QSFP+ 4 X 10G SFP+ 2 X 1G/10G SFP+ 4 X 1G/10G RJ45 bypass 2 X 100G QSFP28
네트워크 포트 작동 모드	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN	In-line monitor, fail-open, fail-close (HW bypass) or TAP/SPAN
고가용성(HA)	Available	Available	Available	Available	Available	Available
관리 포트 (후면 패널)	2X 1G RJ45 ports	2X 1G RJ45 ports	2 X 1G	2 X 1G/10G	2 X 1G/10G	2 X 1G/10G
IPMI 포트 (후면 패널)	10/100/1000G BASE-T(Rear panel)	10/100/1000G BASE-T(Rear panel)	10/100/1000G BASE-T(Rear panel)	10/100/1000G BASE-T(Rear panel)	10/100/1000G BASE-T(Rear panel)	10/100/1000G BASE-T(Rear panel)
전면 LCD 및 키패드	Not available	Not available	Not available	Not available	Not available	Not available
VGA 포트	Yes	Yes	Yes	Yes	Yes	Yes
USB 포트	2 X USB 2.0 , 2 X USB 3.2	2 X USB 2.0 , 2 X USB 3.2	4 X Type A USB ports (all rear)	2 X Type A USB ports (all rear)	2 X Type A USB ports (all rear)	2 X Type A USB ports (all rear)
직렬 포트 (후면 패널)	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
드라이브 용량	(2) 4 TB HDD, RAID 1, 3.5 inch, FRU	(2) 4 TB HDD, RAID 1, 3.5 inch, FRU	(2) 4 TB HDD, RAID 1, 3.5 inch, FRU	(2) 4 TB HDD, RAID 1, 3.5 inch, FRU	(2) 10 TB HDD, RAID 1, 3.5 inch, FRU	(2) 10 TB HDD, RAID 1, 3.5 inch, FRU
인클로저 형식	1 RU, fits 19-inch Rack	1 RU, fits 19-inch Rack	2RU, Fits 19 inch rack	2RU, Fits 19 inch rack	2RU, Fits 19 inch rack	2RU, Fits 19 inch rack
채시 크기 (가로x깊이x높이)	17.2in (437 mm) X 19.98in (507 mm) X1.7in (43 mm)	17.2in (437 mm) X 19.98in (507 mm) X1.7in (43 mm)	19in (482.6mm) x 26in (660.4mm) x 3.5in (88.9 mm)	19in (482.6mm) x 26in (660.4mm) x 3.5in (88.9 mm)	19in (482.6mm) x 26in (660.4mm) x 3.5in (88.9 mm)	19in (482.6mm) x 26in (660.4mm) x 3.5in (88.9 mm)
AC 전원 공급	Redundant (1+1), FRU, 400W with Input 100-240VAC / 6.0 – 3.0A 200-240VDC / 3.4- 3.2A, 50-60 Hz IEC60320- C14 inlet	Redundant (1+1), FRU, 400W with Input 100-240VAC / 6.0 – 3.0A 200-240VDC / 3.4- 3.2A, 50-60 Hz IEC60320- C14 inlet	Redundant (1+1), FRU, 920W with Input 100- 240V, 11-4.4A, 50-60 Hz IEC60320-C14 inlet	Redundant (1+1), FRU, 1000W/1200W with Input 100- 127/200-240Vac, 15-12A/8.5-7A, 50-60 Hz IEC60320-C14 inlet	Redundant (1+1), FRU, 1000W/1200W with Input 100- 127/200-240Vac, 15-12A/8.5-7A, 50-60 Hz IEC60320-C14 inlet	Redundant (1+1), FRU, 1000W/1200W with Input 100- 127/200-240Vac, 15-12A/8.5-7A, 50-60 Hz IEC60320-C14 inlet
최대 전력 소비(watts)	300 watts	300 watts	552 watts	852 watts	928 watts	1100 watts

Table 3. Trellix Network Security smart node, 물리 사양 - 6세대 (계속)

	2600 NX	3600 NX	4600 NX	5600 NX	6600 NX	8600 NX
최대 열 방출(BTU/h)	1024 BTU/h	1024 BTU/h	1883 BTU/h	2905 BTU/h	3164 BTU/h	3751 BTU/h
MTBF (h)	30,376 h	30,376 h	22,984 h	28,458 h	30,416 h	29,911 h
제품 단독 / 배송 시 무게 (lbs /kg)	24 lbs (10.8 kg)/ 37lbs (16.7kg)	24 lbs (10.8 kg)/ 37lbs (16.7kg)	39 lbs (17.69 kg) / 65 lbs (29.48 kg)	42 lbs (19.05 kg) / 68 lbs (30.84 kg)	43 lbs (19.5 kg) 69 lbs (31.3 kg)	43 lbs (19.5 kg) 69 lbs (31.3 kg)
안전 규제 준수	EN IEC 62368-1:2018+A11:2020	EN IEC 62368-1:2018+A11:2020	CAN/CSA 22.2 No. 62368 UL 62368 IEC 62368 EN 62368 BS EN 62368	CAN/CSA 22.2 No. 62368 UL 62368 IEC 62368 EN 62368 BS EN 62368	CAN/CSA 22.2 No. 62368 UL 62368 IEC 62368 EN 62368 BS EN 62368	CAN/CSA 22.2 No. 62368 UL 62368 IEC 62368 EN 62368 BS EN 62368
EMC 규제 준수	EN 55032:2015/A11:2020, EN 55035:2017/A11:2020, EN 61000-3-2:2014, EN 61000-3-3:2013	EN 55032:2015/A11:2020, EN 55035:2017/A11:2020, EN 61000-3-2:2014, EN 61000-3-3:2013	FCC Part 15 Class-A CE (Class-A) CNS 13438 CISPR 32 VCCI-CISPR32 EN 55035 EN 55032 EN 61000 ICES-003 KN 32 KN 35	FCC Part 15 Class-A CE (Class-A) CNS 13438 CISPR 32 VCCI-CISPR32 EN 55035 EN 55032 EN 61000 ICES-003 KN 32 KN 35	FCC Part 15 Class-A CE (Class-A) CNS 13438 CISPR 32 VCCI-CISPR32 EN 55035 EN 55032 EN 61000 ICES-003 KN 32 KN 35	FCC Part 15 Class-A CE (Class-A) CNS 13438 CISPR 32 VCCI-CISPR32 EN 55035 EN 55032 EN 61000 ICES-003 KN 32 KN 35
환경 규제 준수	RoHS: Directive 2011/65/EU	RoHS: Directive 2011/65/EU	RoHS REACH	RoHS REACH	RoHS REACH	RoHS REACH
작동 온도	5°C - 35°C (41°F - 95°F)	5°C - 35°C (41°F - 95°F)	5-35°C 41-95°F	10-35°C 50-95°F	10-35°C 50-95°F	10-35°C 50-95°F
비작동 온도	-40°C - 70°C (-40°F - 158°F)	-40°C - 70°C (-40°F - 158°F)	-40-70°C -40-158°F	-40-70°C -40-158°F	-40-70°C -40-158°F	-40-70°C -40-158°F
작동 상대 습도	8% - 90% (non-condensing)	8% - 90% (non-condensing)	8% - 90% (non-condensing)	8% - 90% (non-condensing)	8% - 90% (non-condensing)	8% - 90% (non-condensing)
비작동 상대 습도	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5-95% non-condensing	5-95% non-condensing	5-95% non-condensing	5-95% non-condensing
작동 고도	0-1,524 m 0-5,000 ft	0-1,524 m 0-5,000 ft	0-1,524 m 0-5,000 ft	0-1,524 m 0-5,000 ft	0-1,524 m 0-5,000 ft	0-1,524 m 0-5,000 ft

Table 4. Trellix Network Security IPS 성능, 물리 사양 - 6세대

	2600 NX	3600 NX	4600 NX	5600 NX	6600 NX	8600 NX
최대 IPS 성능	Up to 500 Mbps	Up to 1 Gbps	2 Gbps	Up to 5 Gbps	Up to 10 Gbps	Up to 20 Gbps
최대 동시 연결 수	160K	500K	1 M	2 M	4 M	8 M
초당 신규 연결 수	8K/Sec	10K/Sec	20K / Sec	40K / Sec	80K / Sec	160K / Sec

Table 5. Trellix Network Security smart node, 가상환경 사양

	VA-NXS 1500	VA-NXS 2500	VA-NXS 2550	VA-NXS 4500	VA-NXS 6500	VA-NXS 7500	VA-NXS 8500	VA-NXS 10500
운영 체제 지원	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows
성능	Up to 50 Mbps	Up to 100 Mbps	Up to 250 Mbps	Up to 500 Mbps	Up to 1 Gbps	Up to 2 Gbps	Up to 5 Gbps	Up to 8.5 Gbps
SmartVision 모드 성능	N/A	Up to 200 Mbps	Up to 500 Mbps	Up to 1 Gbps	Up to 2 Gbps	Up to 4 Gbps	Up to 10 Gbps	Up to 15 Gbps
Evidence Collector 라이선스 성능	N/A	Up to 200 Mbps	Up to 500 Mbps	Up to 1 Gbps	Up to 2 Gbps	Up to 4 Gbps	Up to 10 Gbps	Up to 15 Gbps
네트워크 모니터링 포트	1-8	1-8	1-8	1-8	1-8	1-8	1-8	1-4
네트워크 관리 포트	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
네트워크 포트 작동 모드	Inline, SPAN	Inline, SPAN	Inline, SPAN	Inline, SPAN	Inline, SPAN	Inline, SPAN	Inline, SPAN	Inline, SPAN
CPU 코어 수	3	6	8	8	16	24	48	96
메모리	10 GB	16 GB	16 GB	32 GB	64 GB	128 GB	256 GB	384 GB
드라이브 용량	384 GB	384 GB	384 GB	512 GB	512 GB	512 GB	512 GB	512 GB
네트워크 어댑터	VMXNet3, vNIC	VMXNet3, vNIC	VMXNet3, vNIC	VMXNet3, vNIC	VMXNet3, vNIC	VMXNet3, vNIC	VMXNet3, vNIC	i40e based nics, SRIOV enabled
하이퍼바이저 지원	VMware ESXi 6.0 or later; KVM 1.5.3 or later	VMware ESXi 6.0 or later; KVM 1.5.3 or later; Hyper-V 10.0.14393 or later	VMware ESXi 6.0 or later; KVM 1.5.3 or later; Hyper-V 10.0.14393 or later	VMware ESXi 6.0 or later; KVM 1.5.3 or later; Hyper-V 10.0.14393 or later	VMware ESXi 6.0 or later; KVM 1.5.3 or later; Hyper-V 10.0.14393 or later	VMware ESXi 6.0 or later; KVM 1.5.3 or later	VMware ESXi 6.0 or later; KVM 1.5.3 or later	VMware ESXi 6.7 or later
보안 인증	FIPS 140-2 Level 1 CC NDcPP v2.2e	FIPS 140-2 Level 1 CC NDcPP v2.2e	FIPS 140-2 Level 1 CC NDPP v2.2e	FIPS 140-2 Level 1 CC NDPP v2.2e	FIPS 140-2 Level 1 CC NDPP v2.2e	FIPS 140-2 Level 1 CC NDPP v2.2e	FIPS 140-2 Level 1 CC NDPP v2.2e	FIPS 140-2 Level 1 CC NDPP v2.2e

Table 6. Trellix Network Security smart node IPS, 가상환경 사양

	VA-NXS 1500	VA-NXS 2500	VA-NXS 2550	VA-NXS 4500	VA-NXS 6500	VA-NXS 8500	VA-NXS 10500
Max IPS performance	Up to 50 Mbps	Up to 100 Mbps	Up to 250 Mbps	Up to 500 Mbps	Up to 1 Gbps	Up to 5 Gbps	Up to 8.5 Gbps
Max concurrent connections	15K	80K	80K	160K	500K	2M	2M
New connections per second	750/Sec	4K/Sec	4K/Sec	8K/Sec	10K/Sec	40K/Sec	80K/Sec

Table 7. Trellix Network Security models in Amazon Web Services (AWS)

Model	Throughput	vCPU	Memory	Network interfaces	AWS instance type
Trellix NX	250 Mbps	4	16	ether1 (mgmt), pether2 (submission), pether3, pether4 (monitoring)	m5.xlarge
		8	16	ether1 (mgmt), pether2 (submission), pether3, pether4 (monitoring)	C5.2.xlarge
		4	32	ether1 (mgmt), pether2 (submission), pether3, pether4 (monitoring)	R5.xlarge
	500 Mbps	8	32	ether1 (mgmt), pether2 (submission), pether3, pether4 (monitoring)	M5.2xlarge
		16	32	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	C5.4xlarge
		8	64	ether1 (mgmt), pether2 (submission), pether3, pether4 (monitoring)	R5.2xlarge
	1 Gbps	16	64	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	M5.4xlarge
		36	72	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	C5.9xlarge
		48	96	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	C5.12xlarge
		16	128	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	R5.4xlarge
	2 Gbps	32	128	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	M5.8xlarge
		72	144	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8, pether9, pether10 (monitoring)	C5.18xlarge
		32	256	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	R5.8xlarge
	3 Gbps	48	192	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	M5.12xlarge
		96	192	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8, pether9, pether10 (monitoring)	C5.24xlarge
		48	384	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8, pether9, pether10 (monitoring)	R5.12xlarge
	5 Gbps	64	256	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8, pether9, pether10 (monitoring)	M5.16xlarge
		64	512	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8, pether9, pether10 (monitoring)	R5.16xlarge
	8 Gbps	96	384	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8, pether9, pether10 (monitoring)	M5.24xlarge
		96	768	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8, pether9, pether10 (monitoring)	M5.24xlarge

Table 8. Trellix Network Security models in Azure

Model	Throughput	vCPU	Memory	Network interfaces	Azure instance type
Trellix NX	250 Mbps	4	14	ether1 (mgmt), pether2 (submission), pether3, pether4 (monitoring)	Standard_D3_v2
		8	28	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	Standard_D4_v2
	500 Mbps	8	32	ether1 (mgmt), pether2 (submission), pether3, pether4 (monitoring)	Standard_D8_v3
		8	32	ether1 (mgmt), pether2 (submission), pether3, pether4 (monitoring)	Standard_D8s_v3
	1 Gbps	16	56	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	Standard_D5_v2
		16	64	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	Standard_D16_v3
		16	64	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	Standard_D16s_v3
	2 Gbps	32	128	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	Standard_D32_v3
		32	128	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	Standard_D32s_v3
	3 Gbps	48	192	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	Standard_D48_v3
		48	192	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	Standard_D48s_v3
	5 Gbps	64	256	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	Standard_D64_v3
		64	256	ether1 (mgmt), pether2 (submission), pether3, pether4, pether5, pether6, pether7, pether8 (monitoring)	Standard_D64s_v3

Table 9. Trellix Virtual Execution models on AWS

Model	Throughput	vCPU	Memory	Network interfaces	AWS instance type
Trellix VX Bare-metal	14 Gbps (similar to VX 12550)	96	192 GB	One management port, 4 cluster ports	C5.metal

Table 10. Trellix Virtual Execution smart grid 사양

	VX 5600	VX 12600
운영 체제 지원	Linux macOS X Microsoft Windows	Linux macOS X Microsoft Windows
사양	Up to 2 Gbps	Up to 14 Gbps
고가용성	N+1	N+1
관리 포트(후면 패널)	(1) 10/100/1000BASE-T Port	1x 1G/10G Base-T
클러스터 포트 (후면 패널)	(3) 10/100/1000BASE-T Ports	1x 1G/10G Base-T 4x 1G/10G SFP+
IPMI 포트 (후면 패널)	Included	Included

Table 10. Trellix Virtual Execution smart grid 사양 (계속)

	VX 5600	VX 12600
전면 LCD & 키패드	Not available	Not available
VGA 포트	Included	Included
USB 포트 (후면 패널)	2 X USB 2.0 , 2 X USB 3.2	2x USB 3.1 ports
직렬 포트 (후면 패널)	115,200 bps, no parity, 8 bits, 1 stop bit	115,200 bps, no parity, 8 bits, 1 stop bit
드라이브 용량	(2) 4TB SAS SED, RAID 1	4x 4TB 3.5 SAS3 HDD, RAID10, hot swappable, FRU
인클로저 형식	1 RU, fits 19-inch Rack	2RU, fits 19 inch rack
새시 크기 (가로x깊이x높이)	17.2 (437 mm) X 19.98 (507 mm) X 1.7 (43 mm)	19in x 26 x 3.5 in (482.6 x 660.4 x 89 mm)
DC 전원 공급	Not available	Not available
AC 전원 공급	Redundant (1+1), FRU, 400W with Input 100-240VAC / 6.0 – 3.0A 200-240VDC / 3.4- 3.2A, 50-60 Hz IEC60320- C14 inlet	Redundant (1+1),FRU,1000W/1200W with Input 100-127/200 - 240Vac, 15-12A/8.5- 7A, 50-60 Hz IEC60320-C14 inlet
최대 전력 소비(watts)	300 watts	948 watts
최대 열 방출 (BTU/h)	1024 BTU/h	3232 BTU/h
MTBF (h)	33,982 h	30,863 h
제품 단독 / 배송 시 무게 lb. (kg)	24 lbs (10.9 kg) / 37 lbs (16.8 kg)	44 lbs (20 kg) / 70 lbs (31.8 kg)
보안 인증	FIPS 140-2 Level 1 (pending) CC NDcPP v2.2e (pending)	FIPS 140-2 Level 1, CC NDcPP v2.2e (pending)
안전 규제 준수	EN IEC 62368-1:2018+A11:2020	CAN/CSA 22.2 No. 62368 UL 62368 IEC 62368, EN 62368 BS EN 62368
EMC 규제 준수	EN 55032:2015/A11:2020, EN 55035:2017/A11:2020, EN 61000-3-2:2014, EN 61000-3-3:2013	FCC Part 15 Class-A, CE (Class-A) CNS 13438 CISPR 32 VCCI-CISPR32 EN 55035 EN 55032 EN 61000 ICES-003 KN 32, KN 35
환경 규제 준수	RoHS: Directive 2011/65/EU	RoHS REACH
작동 온도	5°C - 35°C (41°F - 95°F)	10-35°C (50-95°F)
비작동 온도	-40°C - 70°C (-40°F - 158°F)	-40-70°C (-40-158°F)
작동 상대 습도	8% - 90% (non-condensing)	8%-90% non-condensing
비작동 상대 습도	5% - 95% (non-condensing)	5%-95% non-condensing
작동 고도	1,524 m (5,000 ft)	1,524 m (5,000 ft)