

Thunder SSLi Physical Appliance Specifications

| Performance | Thunder 1060S-10G SSLi | Thunder 1060S SSLi | Thunder 3350S SSLi |
|------------------------------------------------|-------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------|
| SSLi Throughput | 1 Gbps | 2 Gbps | 5.5 Gbps |
| SSLi CPS | RSA: 2K ECDHE: 1.2K | RSA: 6K ECDHE: 4K | RSA: 20K ECDHE: 10K |
| SSLi Concurrent Sessions | 50K | 100K | 300K |
| SSL Bulk Throughput ⁵ | 10 Gbps | 15 Gbps | 30 Gbps |
| Network Interface | | | |
| 1 GE (BASE-T) | 7 | 7 | 6 |
| 1 GE Fiber (SFP) | 0 | 0 | 2 |
| 10/1 GE Fiber (SFP+/SFP) | 4 | 4 | 8 + 4 ⁴ |
| 25/10 GE Fiber (SFP28/SFP+) | 2 | 2 | 0 |
| 40 GE Fiber (QSFP+) | 0 | 0 | 0 |
| 100/40 GE Fiber (QSFP28/QSFP+) | 0 | 0 | 0 |
| Management Ports | Ethernet mgmt port, RJ-45 console port | | |
| Hardware Specifications | | | |
| Processor | Intel communications processor 20-core [9-core active] | Intel communications processor 20-core | Intel Xeon 14-core |
| Memory (ECC RAM) | 32 GB [24 GB active] | 32 GB | 64 GB |
| Storage | SSD | | SSD |
| Hardware Acceleration | Software | | Software |
| TLS/SSL Security Acceleration | Hardware | | Hardware |
| Dimensions (inches) | 1.75 (H) x 17.5 (W) x 17(D) | | 1.75 (H) x 17.5 (W) x 18(D) |
| Rack Units (mountable) | 1U | | 1U |
| Unit Weight | 12 lbs | | 18 lbs |
| Power Supply (DC option available) | Dual 300W RPS | | Dual 750W RPS |
| | 80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz | | |
| Power Consumption (typical/max) ^{7,2} | 112W / 127W | | 175W / 222W |
| Heat in BTU/hour (typical/max) ² | 383 / 434 | | 598 / 758 |
| Cooling Fan (front-to-back airflow) | Removable fans | | Hot swap smart fans |
| Operating Ranges | Temperature 0° - 40° C Humidity 5% - 95% | | |
| Regulatory Certifications | FCC Class A, UL, ICES, CE, UKCA, CB, VCCI, BSMI, RCM RoHS | | FCC Class A, UL, CE, UKCA, CB, VCCI, KCC, BSMI, RCM RoHS, FIPS 140-2 ⁺ |
| Standard Warranty | 90-day hardware and software | | |

Thunder SSLi Physical Appliance Specifications (cont.)

| Performance | Thunder 6655S SSLi | Thunder 7655S SSLi |
|----------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------|
| SSLi Throughput | 36 Gbps | 72 Gbps |
| SSLi CPS | RSA: 50K ECDHE: 35K | RSA: 100K ECDHE: 70K |
| SSLi Concurrent Sessions | 2 Million | 4 Million |
| SSL Bulk Throughput ⁵ | 72.5 Gbps | 145 Gbps |
| Network Interface | | |
| 1 GE (BASE-T) | 0 | 0 |
| 1 GE Fiber (SFP) | 0 | 0 |
| 10/1 GE Fiber (SFP+/SFP) | 0 | 0 |
| 25/10 GE Fiber (SFP28/SFP+) | 0 | 0 |
| 40 GE Fiber (QSFP+) | 0 | 0 |
| 100/40 GE Fiber (QSFP28/QSFP+) | 16 | 16 |
| Management Ports | Ethernet mgmt. port, RJ-45 console port, Lights out management | |
| Hardware Specifications | | |
| Processor | Intel Xeon 28-core | 2 x Intel Xeon 28-core |
| Memory (ECC RAM) | 192 GB | 384 GB |
| Storage | SSD | SSD |
| Hardware Acceleration | FTA-5, SPE | 2 x FTA-5, SPE |
| TLS/SSL Security Acceleration | Hardware | Hardware |
| Dimensions (inches) | 2.625 (H) x 17.5 (W) x 30 (D) | 2.625 (H) x 17.5 (W) x 30 (D) |
| Rack Units (mountable) | 1.5U | 1.5U |
| Unit Weight | 39 lbs | 44.2 lbs |
| Power Supply (DC option available) | Dual 1500W RPS 80 Plus Platinum efficiency, 100 - 240 VAC, 50 - 60 Hz | |
| Power Consumption (typical/max) ² | 667W / 856W | 1,121W / 1,300W |
| Heat in BTU/hour (typical/max) ² | 2,276 / 2,921 | 3,826 / 4,436 |
| Cooling Fan (front-to-back airflow) | Hot swap smart fans | |
| Operating Ranges | Temperature 0° - 40° C Humidity 5% - 95% | |
| Regulatory Certifications | FCC Class A, UL, CE, UKCA, CB, VCCI, BSMI, RCM RoHS, FIPS 140-2* | FCC Class A, UL, CE, UKCA, CB, VCCI, BSMI, RCM RoHS, FIPS 140-2* |
| Standard Warranty | 90-day hardware and software | |

Thunder SSLi has been completely merged to into the A10 Thunder CFW product line. Please refer to the [Thunder CFW data sheet](#) for more SSL Insight solution products.

Hardware specifications and performance numbers are subject to change without notice, and may vary depending on configuration and environmental conditions. As for network interface, it's highly recommended to use A10 Networks qualified optics/transceivers to ensure network reliability and stability.

All SSLi products are also available in CFW license. For SWG use cases (e.g., application-aware firewall and IP threat intelligence), CFW product line is required.

*1 Tested in single appliance SSLi deployment with maximum SSL option. Cipher "TLS_RSA_WITH_AES_128_CBC_SHA256" with RSA 2K keys are used for RSA cases. "TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256" with EC P-256 and RSA 2K keys are used for ECDHE case.

*2 With base model. Number varies by SSL model | *3 Optional RPS available | *4 10Gbps speed only | *5 Total SSL (transaction) capacity with maximum SSL option |

* Certification in process | + FIPS model must be purchased

Thunder SSLi Virtual Appliance Specifications

| vThunder SSLi | |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| Supported Hypervisors | VMware ESXi (VMXNET3, SR-IOV, PCI Passthrough), KVM QEMU (SR-IOV, PCI Passthrough) |
| Hardware Requirements | See installation guide |
| License* | <ul style="list-style-type: none"> • BYOL bandwidth license • FlexPool license |
| Standard Warranty | 90-day software |

* Bandwidth license needs to be applied based on the total traffic passing through the SSLi appliance. For example, single appliance SSLi deployment transacts traffic twice (for decryption and the re-encryption), therefore the actual bandwidth would be double of the SSLi throughput or more.twice (for decryption and then re-encryption) in one transaction.

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