



KANSAS CITY KANSAS PUBLIC SCHOOLS / USD 500

PURCHASING OFFICE | 2010 N. 59TH STREET ROOM 370 \ KANSAS CITY, KS 66104

WEB SITE: WWW.KCKPS.ORG/PURCHASING

FIREWALL APPLIANCE (E-RATE)

CISCO FPR3130-NGFW-K9 OR COMPATIBLE – QUANTITY 2

BID No: **RFP 23-004** **ISSUE DATE:** **JANUARY 13, 2023**

Kansas City Kansas Public Schools will receive sealed bids, on this form at the Purchasing Office, 2010 N. 59th Street, Room 370, Kansas City, KS 66104 until **2:15 PM., January 24, 2023**, at which time bids received will be publicly opened and read, all in accordance with bid instructions, specifications and/or bid conditions attached hereto or as shown below.

Contact/Technical Contact:

Wayne C. Correll, Director of Purchasing | (913) 279-2270 | eMail: wayne.correll@kckps.org

BID INSTRUCTIONS:

NO EMAIL OR FAXED BIDS WILL NOT BE ACCEPTED.

All bids submitted must be received by the Purchasing Office by the specific bid closing date and time of 2:15 PM Central Time. If emailed, it is the responsibility of the 'bidder' to ensure the bid date and time is met. FedEx and UPS currently deliver directly to the Central Office of the Kansas City Kansas Public Schools. Bids are not considered received until they are date and time stamped in the Purchasing Office. The Purchasing Office will not be responsible for late deliveries.

For questions regarding confirmation that your bid has been received by the Purchasing Office, please email Wayne Correll at wayne.correll@kckps.org.

A bid tabulation will be provided in response to an emailed request to wayne.correll@kckps.org.

Per attached specifications listed in this invitation to bid. Bidders must specify manufacturer/model number/delivery days, and unit price on each item or bid may be determined to be non-responsive.

- Pricing shall be FOB Kansas City, KS (freight and fuel expenses included).
- Award will be to ONE vendor.
- The District reserves the right to reject any or all bids, to waive any informalities, irregularities, or technical defects in bids, and unless otherwise specified by the District to accept any item or groups of items in the bid, as may be in the best interest of the District.

- Time (days, weeks, etc.) required for delivery is a significant consideration with respect to this award process. The time required for delivery must be indicated in the space provided or your bid may be found non-responsive and may not be considered.
- Bid shall include copies of pertinent warranty information pertaining to the product offered. The bidder agrees that equipment furnished under any resultant purchase order issued by Kansas City Kansas Public Schools shall be covered by commercial warranties the contractor gives to any customer for such supplies. All warranty information and certificates shall be furnished and become the property of the District upon delivery and acceptance of said items and/or the contractor must honor services and all rights and remedies stated in the warranties.
- All items are new manufacture unless otherwise specifically stated in this bid.
- All products must have passed the first line quality standard as set by the manufacturer and no seconds, blemished articles or items having defective workmanship are included.
- Bidder shall notify the District immediately of any changes to specifications made by the manufacturer for the equipment listed.
- Bid may not be considered if a service charge, minimum dollar or minimum quantity order is applied.
- The outcome of this bid will be posted on the District's Purchasing site www.kckps.org/purchasing under Awards Section and will include a bid tabulation/summary.
- Bidder shall acknowledge all addenda for this bid and include the form acknowledgements with their bid.

INCLEMENT WEATHER/EMERGENCY POLICY

IF THERE IS A BUILDING CLOSING THE DAY OF THE OPENING OF PROPOSALS DUE TO INCLEMENT WEATHER OR AN EMERGENCY, THE OPENING OF PROPOSALS WILL OCCUR AT 2:00PM (CENTRAL) THE NEXT BUSINESS DAY THE DISTRICT IS OPEN.

Reference Attachment A for further Bid Conditions and Instructions

Specifications:

The following specifications are to serve as the minimum requirements for this solicitation and should not be construed to exclude any other make or model of comparably equipped item of the same class designation.

Kansas City Kansas Public Schools – Firewall Appliance (Quantity 2)

The Board of Education for the Kansas City Kansas Public Schools / Unified School District No. 500 is seeking proposals for Firewall Appliance equipment:

Two (2) Qty Cisco FPR3130-NGFW-K9 firewalls with optional 4x40GIG Network Module Part # FPR3K-XNM-4X40G and four qty QSFP-H40G-CU3M cables. Requires 3 years of AMP/URL Filtering.

Installation for each of the following sites:

Central Office and Training Center

2010 N. 59th Street
Kansas City, KS 66104

Carl B. Bruce Middle School

2100 N 18th Street
Kansas City, KS 66104

Request for Proposals

The District would like the equipment to last at least ten years, without needing to be replaced.

Kansas City Kansas Public Schools will be submitting one or more Funding Requests to the SLD based on this RFP. Submissions will be completed prior to the SLD 471 Filing deadline, estimated to be 03/28/2023. Respondents must agree to conform to all E-Rate guidelines for the billing of discounts to the SLD.

The Kansas City Kansas Public Schools / USD No. 500 is not liable for any cost incurred by proposers in replying to this RFP.

Proposal Organization and Format

Proposals should be typed and submitted on 8.5” x 11” inch paper bound in a loose-leaf notebook or report cover (no staples, glue binding, coils, or combs). Proposals should be organized and presented in the order and by the number assigned in the RFP. Proposals must be organized with the following headings and subheadings. Each heading and subheading should be separated by tabs or otherwise clearly marked. The RFP sections which should be submitted or responded to are:

(EXAMPLE)

- Cover page
- Introduction
- Response to general requirements
 - Organizational qualifications
 - Staff qualifications

- References
- Response to Technical Requirements
- Cost Proposal

The vendor must submit its Cost Proposal on the form provided in Attachment D – Bid Form according to the instructions provided. Failure to provide any requested information in the prescribed format may result in disqualification of the proposal. No mention of the cost proposal may be made in the response to the technical requirements.

An original plus three (3) copies of the Cost Proposal must be sealed and submitted as a separate part of the proposal. The outside of the envelope must be clearly labeled with the words “Cost Proposal, RFP (Name of RFP)” and name of the vendor and due date. The Cost Proposal is due to the addressee on the due date and time noted above.

Vendor to provide complete proposal on an USB Flash Drive accompanying the hard copy proposal. Files are to be in Portable Document Format (PDF).

Evaluation and Proposal Scoring

Accepted proposals will be reviewed by an evaluation committee and scored against the stated criteria. A proposer may not contact any member of an evaluation committee except at the District’s direction. The evaluation committee's scoring will be tabulated, and proposals ranked based on the numerical scores received.

The E-Rate program requires that price be the major factor, but not the only factor in awarding this proposal. The following criteria will be used:

- 30% Total E-Rate Eligible Cost
- 20% Compatibility with Existing Hardware
- 20% Vendor’s proven reliability/history within the District’s environment; Vendor References; Staff Qualifications
- 20% Technical Merits/Meeting overall requirements
- 5% Invoicing, Ease of Use and Flexibility
- 5% Vendor’s Demonstrated Ability to work with E-Rate

Award

One contract will be awarded to the respondent who submits the best overall proposal in accordance with the specifications and requirements. Failure to provide any information asked for in this RFP may result in disqualification. All proposals will be reviewed and graded by Kansas City Kansas Public Schools District personnel and its consultant.

Contract

Successful respondent shall work with the Kansas City Kansas Public Schools to develop and sign a preliminary contract that satisfies E-Rate requirements.

Technical Requirements

The competing vendor should not only bid the following hardware, but any and all necessary licensing required to work properly with the existing hardware. The District has already invested in a Cisco 5520 Wireless LAN Controller, and would like to continue to leverage this investment.

The following list of equipment has been chosen not only on the technical specifications of the equipment, but also for the following reasons:

1. Available technical support from the vendor
2. Ease of manageability by District IT Staff
3. Proven performance and reliability
4. Compatibility with existing hardware/software/management tools

The configurations set forth in this document are to serve as the minimum requirements for this solicitation and should not be construed to exclude any other make or model of comparable equipment of the same class designation.

BID FORM

REQUIREMENT	EQUIPMENT	
Manufacturer:		
Model:		
	PRICING	
	Cost of Equipment	\$
	Removal of Existing Equipment, Haul Away and Disposal	\$
	Installation	\$
	Other Costs (Please Specify)	\$
	Total Cost	\$

Lead Time to Delivery	
From the date of receipt of order, what is the estimated lead time to delivery?	Days

Diversity Designation(s)	
MBE/WBE/Other Certification	Yes / No
Is your firm certified MBE/WBE or Other? (Circle One)>>	
If Certified MBE/WBE/Other, Please Identify Certification (example: " <i>MBE</i> ")>>	

WE HEREBY AGREE TO FURNISH THE ITEMS ON WHICH PRICES ARE QUOTED ABOVE IN ACCORDANCE WITH ALL TERMS AND CONDITIONS PREVIOUSLY LISTED AND ANY ATTACHED SPECIFICATIONS.

BY: _____	DATE _____
TITLE: _____	FIRM: _____
PHONE: _____	EMAIL: _____

ATTACHMENT A – USD 500 STANDARD TERMS AND CONDITIONS

1. SCOPE: The following terms and conditions shall prevail unless otherwise modified by U.S.D. 500 within this bid document. U.S.D. 500 reserves the right to reject any bid which takes exception to these terms and conditions.
2. DEFINITIONS AS USED HEREIN:
 - a. The term "bid request" means a solicitation of a formal sealed bid.
 - b. The term "bid" means the price offered by the bidder.
 - c. The term "bidder" means the offeror or Contractor.
 - d. The term "U.S.D. 500" means Unified School District No. 500.
 - e. The term "Board of Education" or "BOE" means the governing body of Unified School District No.500
3. COMPLETING BID: Bids must be submitted ONLY on the form provided in this bid document. All information must be legible. Any and all corrections and /or erasures must be initialed. Each bid sheet must be signed by the authorized bidder and required information must be provided.
4. CONFIDENTIALITY OF BID INFORMATION: Each bid must be sealed and submitted in or under cover of the enclosed envelope to provide confidentiality of the bid information prior to the bid opening. Supporting documents and/or descriptive literature may be submitted with the bid or in a separate envelope marked "Literature for Bid (Number)." Do NOT indicate bid prices on literature. All bids and supporting bid documents become public information after the bid opening and are available for inspection by the general public in accordance with the Kansas Open Records Act.
5. ACCURACY OF BID: Each bid is publicly opened and is made part of the public record of U.S.D. 500. Therefore, it is necessary that any and all information presented is accurate and/or will be that by which the bidder will complete the contract. If there is a discrepancy between the unit price and extended total, the unit price will prevail.
6. SUBMISSION OF BID: Bids are to be sealed and submitted to the Purchasing Department Office, 2010 North 59th Street, Room 370, Kansas City, Kansas, 66104, prior to the date and time indicated on the cover sheet.
7. ADDENDA: All changes in connection with this bid will be issued by the Purchasing Office in the form of a written addendum. Signed acknowledgement of receipt of each addendum must be submitted with the bid.
8. LATE BIDS AND MODIFICATION OR WITHDRAWALS: Bids received after the deadline designated in this bid document shall not be considered and shall be returned unopened.
9. BIDS BINDING: All bids submitted shall be binding upon the bidder if accepted by U.S.D. 500 within sixty (60) calendar days after the bid opening.
10. EQUIVALENT BIDS: When brand or trade names are used in the bid invitation, it is for the purpose of item identification and to establish standards for quality, style and features. Bids on equivalent items of substantially the same quality, style and features are invited unless items are marked "No Substitute." Equivalent bids must be accompanied by descriptive literature and/ or samples may be required and shall be supplied at no charge to the school district.
11. NEW MATERIALS, SUPPLIES AND EQUIPMENT: Unless otherwise specified, all materials, supplies or equipment offered by a bidder shall be new, unused, of recent manufacture, first class in every respect, and suitable for their intended purpose. All equipment shall be assembled and fully serviced, ready for operation when delivered.
12. WARRANTY: Supplies or services furnished as a result of this bid shall be covered by the most favorable commercial warranties, expressed or implied, that the bidder and/or manufacturer gives to any customer. The rights and remedies provided herein are in addition to and do not limit any rights afforded to U.S.D. 500 by any other clause of this bid reserves the right to request from bidders a separate manufacturer certification of all statements made in the Proposal.
13. METHOD OF AWARD AND NOTIFICATION: Bids will be analyzed and the award made to the lowest and best, responsive and responsible bidder(s) whose bid conforms to the specifications and whose bid is considered to be the best value in the opinion of U.S.D. 500.
14. U.S.D. 500 reserves the right to reject any or all bids and any part of a bid: to waive informalities, technical defects, and minor irregularities in bids received: and to award the bid on an item by item basis by specified groups of items or to consider bids submitted on an "all or nothing "basis if the bid is clearly designed as such or when it is determined to be in the best interest of U.S.D. 500.
15. The signed bid shall be considered an offer on the part of the bidder: such offer shall be deemed accepted upon the issuance by U.S.D. 500 of a Purchase Order or other contractual document.
16. DELIVERY TERMS: All deliveries shall be F.O.B. Destination and all freight charges shall be included in the bid price.
17. DAMAGED AND/OR LATE SHIPMENTS: U.S.D 500 has no obligation to accept damaged shipments and reserves the right to return at the Contractor's expense damaged merchandise even though the damage was not apparent or discovered until after receipt of the items. The Contractor is responsible to notify U.S.D. 500 Purchasing Office of any late or delayed shipments. U.S.D. 500 reserves the right to cancel all or any part of an order if the shipment is not made as promised.
18. CREDIT TERMS: Bidder shall indicate all discounts for full and/or prompt payment. Discounts shall be considered as a cost factor in the determination of award, except discounts offered for payment within less than ten (10) calendar days. Discounts offered shall be computed from date of receipt of correct invoice or receipt and acceptance of products, whichever is later.

19. SELLER'S INVOICE: Invoices shall be prepared and submitted in duplicate to address shown on the Purchase Order. Invoices shall contain the following information: Purchase Order number, contract number, item number, description of supplies or services, sizes, unit of measure, quantity, unit price and extended totals.
20. TAX EXEMPT: U.S.D. 500 is exempt from Federal, State and local taxes by KS-FZLEKBLQ. Sites of all transactions under the order(s) that shall be derived from this bid request shall be deemed to have been accomplished within the State of Kansas.
21. SAFETY: All practices, materials, supplies and equipment shall comply with the federal Occupational Safety and Health Act, as well as any pertinent Federal, State and/or local safety or environmental codes.
22. DISCLAIMER OR LIABILITY: U.S.D. 500 will not hold harmless or indemnify any bidder for any liability whatsoever.
23. TERMINATION RIGHTS: KCKPS shall have the right to terminate/cancel the Agreement for its convenience and without penalty upon thirty (30) days prior written notice to the Contractor.
24. HOLD HARMLESS: The Contractor agrees to protect, defend, indemnify and hold the Board of Education, its officers, employees and agents fee and harmless from and against any and all losses, penalties, damages, settlements, costs, charges, professional fees or other expenses or liabilities or every kind and character arising out of or relating to any and all claims, liens, demands, obligations, actions, proceedings or causes of action of every kind and character in connection with or arising directly or indirectly out of this agreement and/or the performance hereof. Without limiting the generality of the foregoing, any and all such claims, etc., relating to personal injury, infringement of any patent trademark, copyright (or application for any thereof) or of any other tangible or intangible personal or property right, or actual or alleged violation of any applicable statute, ordinance, administrative order, rule or regulation, or decree of any court, shall be included in the indemnity hereunder. The Contractor further agrees to investigate, handle, respond to, provide defense for and defend any such claims, etc., at his/her sole expense and agrees to bear all other costs and expenses related thereto, even if such claim is groundless, false or fraudulent.

NO MUTUAL INDEMNIFICATION:

K.S.A.72-8201a: Contracts; indemnification or hold harmless provisions, void.

(a) It is the public policy of the state of Kansas that all contracts entered into by the board of education of a school district, or any officers or employees thereof acting on behalf of the board, provide that the school district and board of education shall be responsible solely for the district's or board's actions or failure to act under a contract.

(b) The board of education of a school district or any officers or employees thereof acting on behalf of the board shall not have the authority to enter into a contract under which the school district or board agrees to, or is required to, indemnify or hold harmless against damages, injury or death resulting from the actions or failure to act on the part of any party to a contract other than the board or district.

(c) The provisions of any contract entered into in violation of this section shall be contrary to the public policy of the state of Kansas and shall be void and unenforceable.

25. INSURANCE: Upon receipt of award, Contractor shall provide Certificate of Insurance as required within three (3) days after notification issued by the Purchasing Department.
 - A. The following general insurance requirements apply to any and all work under this contract by all Contractors and subcontractors of any tier.
 - (1) Any and all insurance required by this contract with each and any and all insurance required by this contract shall be maintained during the entire length of this contract, including any extensions thereto, and until all work has been completed to the satisfaction of the Kansas City Kansas Public Schools. Any and all insurance must be on an occurrence basis.
 - (2) No Contractor or subcontractor shall commence work under a contract until all insurance requirements contained within the solicitation have been complied with and until evidence of all insurance requirements in each and every contract with each and every subcontractor of any tier and shall require the same to comply with all such requirements.
 - (3) The Kansas City Kansas Public Schools shall be covered as an Additional Insured under any and all insurance required by this contract. Confirmation of this shall appear on all certificates of insurance and on any and all applicable policies. The title of the awarded contract shall also appear on any and all applicable policies.
 - (4) The Kansas City Kansas Public Schools shall be given no less than thirty (30) days' written notice of cancellation. The Kansas City Kansas Public Schools shall be given not less than thirty (30) days' prior written notice of material changes of any insurance required under this contract. The Kansas City Kansas Public Schools shall be given written notice of renewal of coverage not less than thirty (30) days prior to the expiration of any particular policy.
 - (5) Each and every agent shall warrant when signing the certificate of insurance that he is acting as an authorized representative on behalf of the companies affording insurance coverage under the contract and that he is licensed by the State of Kansas to conduct insurance business in the State of Kansas and that the companies affording insurance coverage are currently licensed by the State of Kansas and are currently in good standing with the Commissioner of Insurance for the State of Kansas.
 - (6) Any and all companies providing insurance required by this contract shall meet the minimum financial security requirements as set forth below. The rating for each company must be indicated on the certificate of insurance. For all contracts, regardless of risk, companies providing insurance under this contract must have a current:
 - (a) Best's Rating not less than A, and
 - (b) Best's Financial Size Category not less than Class VII

(7) In the event the Contractor neglects, refuses, or fails to provide insurance required by the contract documents, or if such insurance is canceled for any reason, Kansas City Kansas Public Schools shall have the right, but not the duty, to procure the same, and the cost thereof shall be deducted from monies then due or thereafter to become due to the Contractor or Kansas City Kansas Public Schools shall have the right to cancel the contract.

B. Worker's Compensation and Employer's Liability Insurance
The Contractor shall procure and maintain Worker's Compensation and Employer's Liability Insurance in the following limits. Such insurance is to cover each and every employee who is or may be engaged in work under this contract.

Worker's Compensation.....	Statutory
<u>Employer's Liability</u>	
Bodily Injury by Accident.....	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

C. Comprehensive General Liability Insurance
The Contractor shall procure and maintain Comprehensive Insurance in an amount not less than \$1,000,000 for bodily injury and property damage combined single limit. The following specific extensions of coverage shall be provided and indicated on the certificate of insurance:

- (1) Comprehensive Form
- (2) Contractual Insurance
- (3) Personal Injury
- (4) Broad Form Property Damage
- (5) Premises – Operations
- (6) Completed Operations

This coverage shall cover the use of all equipment, hoists, and vehicles on the site(s) not covered by Automobile Liability under this contract. Policy coverage must be on an occurrence basis.

D. Automobile Liability Insurance
The Contractor shall procure and maintain Automobile Liability Insurance in an amount not less than \$1,000,000 for bodily injury and property damage combined single limit. The following extensions of coverage shall be provided and indicated on the certificate of insurance.

- (1) Comprehensive Form
- (2) Owned, Hired, Leased and non-owned vehicles

If the Contractor does not own any vehicles in the corporate name, non-owned vehicles coverage shall apply and must be endorsed on either the Contractor's personal automobile policy or the Comprehensive General Liability coverage required under this contract.

E. Commercial Crime insurance (when applicable)
The Contractor shall procure and maintain Commercial Crime/Fidelity insurance in an amount not less than \$1,000,000.00, including coverage for theft or loss of KCKPS property.

26. LAW GOVERNING: All contractual agreements shall be subject to, governed by, and construed according to the laws of the State of Kansas.

27. ANTI-DISCRIMINATION CLAUSE: No bidder on this request shall in any way, directly or indirectly, discriminate against any person because of age, race, color handicap, sex, national origin, or religious creed.

28. BID BOND/PERFORMANCE BOND (Applicable to Construction/Remodel/Repair Projects, Unless Waived by the District)

- A. Each proposal must be accompanied by a certified or cashier's check, or a bid bond in the amount of five percent (5%) of the Contractor's total bid.
- B. A Performance Bond and a Material and Labor Payment Bond in amounts equal to one hundred percent (100%) of the contract price shall be furnished by the successful bidder. Bonds shall be issued by a surety acceptable to the Board.

29. DISQUALIFICATION:

A. The Director of Purchasing may, at her/his sole discretion, disqualify a bidder for one or any combination of the following reasons:

- 1. Bidder's product does not meet the specifications or bid conditions of the solicitation;
- 2. Bidder's tendered bid is not received on the District's bid form;
- 3. Bidder's tendered bid is not signed;
- 4. Required bid bond is not furnished at time of bid opening;
- 5. Failure to comply with bid instructions, terms and conditions that are judged to be essential to the competitive process and in the best interests of the District.

B. Disqualification of bidders on future bids may be considered for any one or combination of the following reasons:

- 1. Refusal of the bidder to complete a contract or bid;
- 2. Bidder's past history of late deliveries or partial/incomplete shipments,
- 3. Bidder's products or services have proven unreliable, unworkable or have not accomplished the result requested in the District's specifications.

30. SUPPLIER DIVERSITY: The Kansas City Kansas Public Schools encourages supplier diversity and participation of MBE/WBE/DBE designated businesses. However, such participation will not result in any selection or scoring advantage in the bid evaluation process.
31. **INCLEMENT WEATHER / EMERGENCY:**
IF THERE IS A SCHOOL CLOSING THE DAY OF A SCHEDULED BID OPENING DUE TO INCLEMENT WEATHER OR AN EMERGENCY, THE BID OPENING WILL OCCUR AT 2:00 PM (CENTRAL) THE NEXT BUSINESS DAY THAT THE DISTRICT IS OPEN.

Cisco Secure Firewall 3100 Series

Cisco Secure Firewall
Cisco Secure IPS



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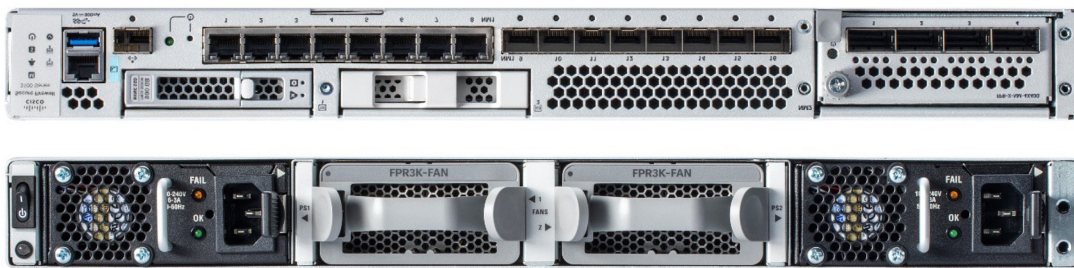
Cisco Secure Firewall 3100 Series

The mid-range Cisco Secure Firewall 3100 Series supports your evolving world. It makes hybrid work and zero trust practical, with the flexibility to ensure strong return on investment. The Cisco Secure Firewall 3100 Series is a family of four threat-focused security appliances that delivers business resiliency and superior threat defense. **Each model offers outstanding performance for multiple firewall use cases, even when advanced threat functions are enabled.** These performance capabilities are enabled by a modern CPU architecture coupled with purpose-built hardware that optimizes firewall, cryptographic, and threat inspection functions.

The 3100 series also supports clustering to maximize performance, along with higher port density and Q-in-Q support that enables an expanded set of use cases. These capabilities flexibly support you as your needs evolve and the scale of your operations grows.

The series' firewall throughput range addresses use cases from the Internet edge to the data center and private cloud. 3100 Series platforms run either ASA or Firewall Threat Defense (FTD) software. The platforms can be deployed in both firewall and dedicated IPS for inline sets and passive interfaces, the 3100 series supports Q-in-Q (stacked VLAN) up to two 802.1Q headers in a packet. The platform also support FTW (fail-to-wire) network modules.

Model overview



Cisco Secure Firewall 3100 series summary

Table 1. Cisco Secure Firewall 3100 Series performance and specification highlights

Secure Firewall Model	Firewall	FW+AVC+IPS	IPS Throughput	Interfaces	Optional interfaces
3110	18G	17G	17G	8 x RJ45, 8 x 1/10G SFP+	10G SFP+
3120	22G	21G	21G	8 x RJ45, 8 x 1/10G SFP+	10G SFP+
3130	42G	38G	38G	8 x RJ45, 8 x 1/10/25G SFP+	10G/25G/40G SFP+, 4x40G NM
3140	49G	45G	45G	8 x RJ45, 8 x 1/10/25G SFP+	10G/25G/40G SFP+, 4x40G NM

Performance specifications and feature details

Table 2. Cisco Secure Firewall 3100 Series performance and capabilities, running on Firewall Threat Defense (FTD) software

Features	3110	3120	3130	3140
Throughput: FW + AVC (1024B)	17.0 Gbps	21.0 Gbps	38.0 Gbps	45.0 Gbps
Throughput: FW + AVC + IPS (1024B)	17.0 Gbps	21.0 Gbps	38.0 Gbps	45.0 Gbps
Maximum concurrent sessions, with AVC	2 million	4 million	6 million	10 million
Maximum new connections per second, with AVC	130,000	170,000	240,000	300,000
TLS ¹	4.8 Gbps	6.7 Gbps	9.1 Gbps	11.5 Gbps
Throughput: IPS (1024B)	17.0 Gbps	21.0 Gbps	38.0 Gbps	45.0 Gbps
IPSec VPN Throughput (1024B TCP w/Fastpath)	8 Gbps	10 Gbps	17.8 Gbps	22.4 Gbps
Projected IPSec VPN Throughput (1024B TCP w/ Fastpath) with VPN Offload (FTD 7.2)	11.0 Gbps	13.5 Gbps	33.0 Gbps	39.4 Gbps
Maximum VPN Peers	3,000	6,000	15,000	20,000

Features	3110	3120	3130	3140
Local On-device Management	Yes	Yes	Yes	Yes
Centralized management	Centralized configuration, logging, monitoring, and reporting are performed by the Firewall Management Center or alternatively in the cloud with Cisco Defense Orchestrator			
Application Visibility and Control (AVC)	Standard, supporting more than 4000 applications, as well as geolocations, users, and websites			
AVC: OpenAppID support for custom, open source, application detectors	Standard			
Cisco Security Intelligence	Standard, with IP, URL, and DNS threat intelligence			
Cisco Secure IPS	Available; can passively detect endpoints and infrastructure for threat correlation and Indicators of Compromise (IoC) intelligence			
Cisco Malware Defense	Available; enables detection, blocking, tracking, analysis, and containment of targeted and persistent malware, addressing the attack continuum both during and after attacks. Integrated threat correlation with Cisco Secure Endpoint is also optionally available			
Cisco Secure Malware Analytics	Available			
URL Filtering: number of categories	More than 80			
URL Filtering: number of URLs categorized	More than 280 million			
Automated threat feed and IPS signature updates	Yes: class-leading Collective Security Intelligence (CSI) from the Cisco Talos Group (https://www.cisco.com/c/en/us/products/security/talos.html)			
Third-party and open-source ecosystem	Open API for integrations with third-party products; Snort® and OpenAppID community resources for new and specific threats			
High availability and clustering	Active/active, Active/standby. Cisco Secure Firewall 3100 Series allows clustering of up to 8 chassis			
Cisco Trust Anchor Technologies	Secure Firewall 3100 Series platforms include Trust Anchor Technologies for supply chain and software image assurance. Please see the section below for additional details			

1 Throughput measured with 50% TLS 1.2 traffic with AES256-SHA with RSA 2048B keys.

NOTE: Performance will vary depending on features activated, and network traffic protocol mix, and packet size characteristics. Performance is subject to change with new software releases. Consult your Cisco representative for detailed sizing guidance.

Table 3. Cisco Secure Firewall 3100 Series performance and capabilities, running on ASA software

Features	3110	3120	3130	3140
Stateful inspection firewall throughput ¹	18.0 Gbps	22.0 Gbps	42.0 Gbps	49.0 Gbps
Stateful inspection firewall throughput (multiprotocol) ²	15.0 Gbps	17.0 Gbps	39.0 Gbps	43.0 Gbps
Concurrent firewall connections	2 million	4 million	6 million	10 million
New connections per second	300,000	500,000	875,000	1,100,000
IPsec VPN throughput (450B UDP L2L test)	8 Gbps	10 Gbps	14 Gbps	17 Gbps
Projected IPsec VPN throughput (450B UDP L2L test) with VPN Offload (ASA 9.18)	12.0 Gbps	15.4 Gbps	28.0 Gbps	33.0 Gbps
Maximum VPN Peers	3,000	7,000	15,000	20,000
Security contexts (included; maximum)	2; 100	2; 100	2; 100	2; 100
High availability	Active/active and active/standby	Active/active and active/standby	Active/active and active/standby	Active/active and active/standby
Clustering	8	8	8	8
Scalability	VPN Load Balancing			
Centralized management	Centralized configuration, logging, monitoring, and reporting are performed by Cisco Security Manager or alternatively in the cloud with Cisco Defense Orchestrator			
Adaptive Security Device Manager	Web-based, local management for small-scale deployments			

1 Throughput measured with 1500B User Datagram Protocol (UDP) traffic measured under ideal test conditions.

2 “Multiprotocol” refers to a traffic profile consisting primarily of TCP-based protocols and applications like HTTP, SMTP, FTP, IMAPv4, BitTorrent, and DNS.

Hardware specifications

Table 4. Cisco Secure Firewall 3100 Series hardware specifications

Features	Cisco Secure Firewall Model			
	3110	3120	3130	3140
Dimensions (H x W x D)	1.75 x 17 x 20 in. (4.4 x 43.3 x 50.8 cm)	1.75 x 17 x 20 in. (4.4 x 43.3 x 50.8 cm)	1.75 x 17 x 20 in. (4.4 x 43.3 x 50.8 cm)	1.75 x 17 x 20 in. (4.4 x 43.3 x 50.8 cm)
Form factor (rack units)	1RU	1RU	1RU	1RU
Integrated I/O	8 x 10M/100M/ 1GBASE-T Ethernet interfaces (RJ- 45), 8 x 1/10 Gigabit (SFP) Ethernet interfaces	8 x 10M/100M/ 1GBASE-T Ethernet interfaces (RJ- 45), 8 x 1/10 Gigabit (SFP) Ethernet interfaces	8 x 10M/100M/ 1GBASE-T Ethernet interfaces (RJ- 45), 8 x 1/10/25 Gigabit (SFP) Ethernet interfaces	8 x 10M/100M/ 1GBASE-T Ethernet interfaces (RJ- 45), 8 x 1/10/25 Gigabit (SFP) Ethernet interfaces
Network modules	8 x 1/10G Options	8 x 1/10G Options	8 x 1/10/25G, 4 x 40G Options	8 x 1/10/25G, 4 x 40G Options
Maximum number of interfaces	Up to 24 total Ethernet ports, (8x1G RJ-45, 8x1/10G SFP, and network module)	Up to 24 total Ethernet ports, (8x1G RJ-45, 8x1/10G SFP, and network module)	Up to 24 total Ethernet ports (8x1G RJ-45, 8x1/10/25G SFP, and network module)	Up to 24 total Ethernet ports (8x1G RJ-45, 8x1/10/25G SFP, and network module)
Integrated network management ports	1 x 1/10G SFP	1 x 1/10G SFP	1 x 1/10G SFP	1 x 1/10G SFP
Serial port	1 x RJ-45 console	1 x RJ-45 console	1 x RJ-45 console	1 x RJ-45 console
USB	1 x USB 3.0 Type-A (900mA)	1 x USB 3.0 Type-A (900mA)	1 x USB 3.0 Type-A (900mA)	1 x USB 3.0 Type-A (900mA)
Storage	1x 900 GB, 1x spare slot	1x 900 GB, 1x spare slot	1x 900 GB, 1x spare slot	1x 900 GB, 1x spare slot
Power supply configuration	Single 400W AC, Dual 400W AC optional. Single/Dual 400W DC optional ¹	Single 400W AC, Dual 400W AC optional. Single/Dual 400W DC optional ¹	Dual 400W AC. Single/dual 400W DC optional ¹	Dual 400W AC. Single/dual 400W DC optional ¹
AC input voltage	100 to 240V AC	100 to 240V AC	100 to 240V AC	100 to 240V AC
AC maximum input current	< 6A at 100V	< 6A at 100V	< 6A at 100V	< 6A at 100V
AC maximum output power	400W	400W	400W	400W
AC frequency	50 to 60 Hz	50 to 60 Hz	50 to 60 Hz	50 to 60 Hz
AC efficiency	>89% at 50% load	>89% at 50% load	>89% at 50% load	>89% at 50% load
DC input voltage	-48V to -60VDC	-48V to -60VDC	-48V to -60VDC	-48V to -60VDC
DC maximum input current	< 12.5A at -48V	< 12.5A at -48V	< 12.5A at -48V	< 12.5A at -48V
DC maximum output power	400W	400W	400W	400W
DC efficiency	>88% at 50% load	>88% at 50% load	>88% at 50% load	>88% at 50% load
Redundancy	1+1 AC or DC with dual supplies	1+1 AC or DC with dual supplies	1+1 AC or DC with dual supplies	1+1 AC or DC with dual supplies
Fans	2 hot-swappable fan modules (with 2 fans each) ²	2 hot-swappable fan modules (with 2 fans each) ²	2 hot-swappable fan modules (with 2 fans each) ²	2 hot-swappable fan modules (with 2 fans each) ²
Noise	65 dBA@ 25C 74 dBA maximum	65 dBA@ 25C 74 dBA maximum	65 dBA@ 25C 74 dBA maximum	65 dBA@ 25C 74 dBA maximum
Rack mountable	Yes. Fixed mount brackets optional. (2- post). Mount rails included (4-post EIA- 310-D rack)	Yes. Fixed mount brackets optional. (2- post). Mount rails included (4-post EIA- 310-D rack)	Yes. Fixed mount brackets optional. (2- post). Mount rails included (4-post EIA- 310-D rack)	Yes. Fixed mount brackets optional. (2- post). Mount rails included (4-post EIA- 310-D rack)

Features	Cisco Secure Firewall Model			
	3110	3120	3130	3140
Weight	23 lb (10.5 kg) 1 x power supplies, 1 x NM, fan module, 1x SSD	23 lb (10.5 kg) 1 x power supplies, 1 x NM, fan module, 1x SSD	25 lb (11.4 kg) 2 x power supplies, 1 x NM, fan module, 1x SSD	25 lb (11.4 kg) 2 x power supplies, 1 x NM, fan module, 1x SSD
Temperature: operating	32 to 104°F (0 to 40°C)	32 to 104°F (0 to 40°C) or NEBS operation (see below) ³	32 to 104°F (0 to 40°C)	32 to 104°F (0 to 40°C)
Temperature: nonoperating	-4 to 149°F (-20 to 65°C)	-4 to 149°F (-20 to 65°C)	-4 to 149°F (-20 to 65°C)	-4 to 149°F (-20 to 65°C)
Humidity: operating	10 to 85% noncondensing	10 to 85% noncondensing	10 to 85% noncondensing	10 to 85% noncondensing
Humidity: nonoperating	5 to 95% noncondensing	5 to 95% noncondensing	5 to 95% noncondensing	5 to 95% noncondensing
Altitude: operating	10,000 ft (max)	10,000 ft (max) or NEBS operation (see below) ³	10,000 ft (max)	10,000 ft (max)
Altitude: nonoperating	40,000 ft (max)	40,000 ft (max)	40,000 ft (max)	40,000 ft (max)
NEBS operation (FPR- 3120 Only) ³		Operating altitude: 0 to 13,000 ft (3962 m) Operating temperature: Long term: 0 to 45°C, up to 6,000 ft (1829 m) Long term: 0 to 35°C, 6,000 to 13,000 ft (1829 to 3964 m) Short term: -5 to 55°C, up to 6,000 ft (1829 m)		

1 Dual power supplies are hot-swappable.

2 Fans operate in a 3+1 redundant configuration where the system will continue to function with only 3 operational fans. The 3 remaining fans will run at full speed.

3 FPR-3120 platform is designed to be NEBS ready. The availability of NEBS certification is pending.

Table 5. Cisco Secure Firewall 3100 Series NEBS, Regulatory, Safety, and EMC Compliance

Specification	Description
Regulatory compliance	Products comply with CE markings per directives 2004/108/EC and 2006/108/EC
Safety	<ul style="list-style-type: none"> • UL 62368-1 • CAN/CSA-C22.2 No. 62368-1 • EN 62368-1 • IEC 62368-1 • IEC 60950-1 • AS/NZS 62368-1 • GB4943
EMC: emissions	<ul style="list-style-type: none"> • FCC 47CFR15 Class A • AS/NZS CISPR 32 Class A • EN55032/CISPR 32 Class A • ICES-003 Class A • VCCI Class A • KS C 9832 Class A • CNS-13438 Class A • EN61000-3-2 Power Line Harmonics • EN61000-3-3 Voltage Changes, Fluctuations, and Flicker

Specification	Description
EMC: Immunity	<ul style="list-style-type: none"> • IEC/EN61000-4-2 Electrostatic Discharge Immunity • IEC/EN61000-4-3 Radiated Immunity • IEC/EN61000-4-4 EFT-B Immunity • IEC/EN61000-4-5 Surge • IEC/EN61000-4-6 Immunity to Conducted Disturbances • IEC/EN61000-4-11 Voltage Dips, Short Interruptions, and Voltage Variations • KS C 9835
EMC: ETSI/EN	<ul style="list-style-type: none"> • EN 300 386 Telecommunications Network Equipment (EMC) • EN55032/CISPR 35 Multimedia Equipment (Emissions) • EN55024/CISPR 24 Information Technology Equipment (Immunity) • EN55035/CISPR 35 Multimedia Equipment (Immunity) • EN61000-6-1 Generic Immunity Standard

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