

Network Computing Platforms





GSA Contract Holder # GS-35F-0470Y

Focus • Agility • Competitiveness



Rackmount and Desktop Network Appliances (FWS Series)

Introduction to the FWS Series

The FWS Series offer enterprise grade 2U rackmount, 1U rackmount and desktop network appliances with a broad selection of processors from the powerful Intel® Xeon®, Core™ i7/ i5/ i3 to the cost efficient Atom™ processors. Designed for scalability and flexible configurations, the FWS Series are reliable systems for demanding network applications. The FWS Series come with various combinations of Ethernet modules including GbE and SFP Fiber LAN, PCI-E Bus expansion slots and LCM with keypad control.



Benefits for FWS Series Customers

Our mission to offer customers complete solutions is supported by our solid engineering expertise, which has helped increase customer profitability and lowering total cost of ownership via detailed optimization of technology services. AAEON is well poised to support customers with a comprehensive solution and ensure that our customers' products are competitive in the Network Security market. AAEON provides faster time-to-market services with close co-development processes with customers, and provides higher flexibility and quality with reliable validation process in place.



Network Interface Modules (NIM)

The FWS series are designed with front panel swappable design configurations, giving customers swappable modules offering 10/100/1000Base-TX Ethernet and SFP+ fiber LAN connectivity options.



Swappable Design for Varied Configurations

Network Applications

- IDS (Intrusion Detection System)
- IPS (Intrusion Prevention System)
- VPN (Virtual Private Networks)
- NAC (Network Access Control)
- Load Balancing
- Web Content Filtering
- UTM (Unified Threat Management)
- VoIP Gateway



Core Competence of AAEON FWS Series



Leading Networking Technology

- 10/100/1000/10000/40000 Mbps Ethernet
- Copper and fiber Ethernet at 10GbE, 40GbE
- Support for up to 64 network ports
- Advanced bypass solutions
- Higher throughput

Module NIC and High Port Density

Featuring 64 network ports, the FWS-8500 is a 2U rackmount device with AAEON's modular technology to cater to all your customization needs.

Your Reliable Networking Solutions

All AAEON network appliances incorporates LAN Bypass functions, redundant power supplies, and hot swappable fans, allowing your network to remain up and running even in times of unexpected outages and breakdowns

Cutting Edge Processors

All AAEON's network solutions leverage on the latest Intel®'s Xeon®, Core™, and Atom™ processors for maximum data processing capabilities for the lowest power consumption.







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Features



Advanced Bypass Function 3.0

AAEON's Advanced Bypass function 3.0 provides fail-safe access ports for any in-line monitoring appliances, such as firewall, WAN optimization, intrusion prevention system (IPS) or UTM, when traffic can no longer flow through the link due to power loss, hardware or software failure. Advanced features include Power Failure Mode, System Failure Mode and Force Bypass Mode (programmable). Being jumper-less in design, AAEON's Bypass function 3.0 is easier to manage and configure.



Console Redirection

AAEON FWS Series allow the BIOS to be configured from the serial port, it is additional hardware that remotely replicates the computer's VGA monitor and keyboard.

Remote Boot From LAN (PXE)

PXE booting is one of the many ways you can boot a computer (or embedded device, or just about anything, possibly a toaster even) entirely from the network without any form of storage on the destination computer (RAM aside).









Software-Programmable Key

Software-programmable keys can be found in products of AAEON's FWS series for quicker access to customized features, such as system reset, restore, etc.

LCM & Keypad

AAEON's rackmount FWS series products are fitted with a LCD Module and keypad, which can be used for accessing the LEDs, bypass functions, watchdog, or Linux API via customized software

Hot-Swappable System Fans

Fans, due to their mechanical nature and continuous operation, normally suffered low mean time between failures (MTBF) and are considered the most vulnerable component in any computers or dedicated appliances. In order to prevent costly downtime and tarnished reputations caused by overheating, AAEON's FWS series network appliances feature a series of fans with N+1 redundancy and hot swappable designs that allow fans to be immediately replaced once a breakdown is discovered.

Redundant Power Supplies

Mission critical appliances, such as network appliances, are heavily depended upon and hence are commonly designed with more than one source of power. AAEON's FWS series network appliances are no exception. With dual power supply, devices can remain operational even in times of power outages.

IPMI Remote Management

- Provides the foundation for intelligent platform management: Autonomous access, monitoring, logging and control features that function independently from the system processors.
- Provides scalable support for entry to high-end systems
- Supports multi-chassis and modular configuration



Software-Programmable Key







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Design Manufacturing Service

Design Manufacturing Service (DMS) offers exceptional end-to-end services from product conceptualization, product development to manufacturing and service programs. All services are linked together through a comprehensive process and closely monitored by dedicated professionals to guarantee the highest level in product quality, reliability and durability.

- Product Conceptualization
- Electronic Circuit Development
- PCB Layout
- **Component Qualification**
- Mechanical Design
- Prototype building
- Compatibility, Reliability and Qualification testing
- Certification and processing (Agency Approvals)
- Manufacturing Design
- Packaging and Enclosure Design



Collaboration Models

Customers can consign to AAEON the manufacturing of their existing products, customize existing AAEON COTS products, or joint develop new products with the expertise of a dedicated project team that oversees the project from product conceptualization to ontime delivery of the goods. AAEON DMS handles Large-volume as well as Low-Volume-High-Mix projects, satisfying the need of our customers for every kind of computing platform requirements.



6 Selection Guide

| | | Launching Q3 | The second second | Territoria and | |
|-----------------------|--|--|--|--|--|
| Model | FWS-8500 | FWS-7820 | FWS-7811 | FWS-7810 | |
| Application | Unified Threat Management (UTM) Virtual Private Network (VPN) Content Management (CM) Load Balancing Intrusion Detection System (IDS) Intrusion Prevention System (IPS) Firewall | Unified Threat Management (UTM) Virtual Private Network (VPN) Content Management (CM) Load Balancing Intrusion Detection System (IDS) Intrusion Prevention System (IPS) Firewall | Unified Threat Management (UTM) Virtual Private Network (VPN) Content Management (CM) Load Balancing Intrusion Detection System (IDS) Intrusion Prevention System (IPS) Firewall | Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus | |
| Form Factor | 2U 64 LAN Rackmount | 10 | 1U 8 LAN Rackmount | 1U 8 LAN Rackmount | |
| Processor | Dual Intel® Xeon® processor E5-2600 v3 | Intel® 5th Gen Core TM / Xeon® Processors | Intel® 4th Gen Core™/ Xeon® | Intel® 4th Gen Core™/ Xeon® | |
| Chipset | Intel® 8925 | Intel® C236 | Intel® C226 | Intel® C226 | |
| System Memory | 288-pin DDR4 1866/2133 RDIMM x 16, up to 128 GB | 288-pin DDR4 2133MHz ECC/non-ECC UDIMM x 4, up to 64 GB | 240-pin DDR3/3L 1333/1600 ECC/non-ECC UDIMM x 4, up to 32 GB | 240-pin DDR3/3L 1333/1600 ECC/non-ECC UDIMM x 4, up to 32 GB | |
| Ethernet | Depends on Network Interface Module | Intel® I210 Gigabit Ethernet x 1, Depends on Network Interface Module | Intel® I211AT Gigabit Ethernet | Intel® I211AT Gigabit Ethernet | |
| Bypass | Depends on Network Interface Module | Depends on Network Interface Module | Up to 6 pairs bypass with NIM | Up to 6 pairs bypass with NIM | |
| Drive Bay | Onboard SATA 3 x 2 | 3.5" SATA HDD x 1 or 2.5" SATA HDD x 2 CFast™ Socket x 1 (Optional CF socket or mSATA slot) | Onboard SATA 3 x 2 (optional extra 3 SATA ports) | Onboard SATA 3 x 2 (optional extra 3 SATA ports) | |
| Cooling Fan | 5 | 2 | 2 | 2 | |
| Front I/O Panel | Power LED x 1 Status LED x 1 HDD Active LED x 1 USB x 2 RJ-45 Console x 1 LCM x 1 Reset Button x 1 NIM Slot x 8 | Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.0 x 2 NIM Slot x 4 RJ-45 Console x 1 LCM with keypad x 1 Software Programmable Switch x 1 | Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN LED x 16 USB 3.0 x 2 LAN x 8 RJ-45 Console x 1 LCM x 1 Reset Button x 1 NIM Slot x 1 Bypass LED (Optional up to 2) | Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN LED x 16 USB 3.0 x 2 LAN x 8 RJ-45 Console x 1 LCM x 1 Reset Button x 1 NIM Slot x 1 Bypass LED (Optional up to 2) | |
| Rear I/O Panel | PCI-E [x8] expansion slot x 2 Redundant Power Alarm Reset Button x 1 | AC Power Input x 1 (2 x AC Power Input for Redundant PSU) Power Switch x 1 | PCI-E [x8] slot x 1 for NIM PCI-E [x8] slot x 2 for add-on card (optional) Redundant Power Alarm Reset Button x 1 | PCI-E [x8] slot x 1 for NIM PCI-E [x8] slot x 2 for add-on card (optional) | |
| Color | Black | Black | Black | Black | |
| Power Requirement | Redundant 650W | Flex ATX 250W and Redundant 220W | Redundant 275W | Flex ATX 250W | |
| Storage Humidity | 10~80%@40°C, non-condensing | 10~80%@40°C, non-condensing | 10~80%@40°C, non-condensing | 10~80%@40°C, non-condensing | |
| Anti-Vibration | 0.5Grms/ 5 ~500 Hz/ Operation | 0.5Grms/ 5 ~ 500Hz/ Operation (3.5" H.D.D) 1.5Grms/ 5 ~ 500Hz/ No Operation | 0.5Grms/5 ~500 Hz/Operation | 0.5Grms/ 5 ~500 Hz/ Operation | |
| Anti-Shock | 10G Peak Acceleration (11ms duration) | 10G Peak Acceleration (11ms duration), operation 20G Peak Acceleration (11ms duration), non operation | 10G Peak Acceleration (11ms duration) | 10G Peak Acceleration (11ms duration) | |
| Certification | CE/FCC | CE/FCC | CE/FCC | CE/FCC | |
| Dimension (W x H x D) | 16.9" x 3.4" x 23.6" (430mm x 88mm x 600mm) | 16.9" x 1.7" x 18.7" (430mm x 44mm x 500mm) | 16.9" x 1.7" x 18.7" (430mm x 44mm x 475mm) | 16.9" x 1.7" x 12" (430mm x 44mm x 305mm) | |
| Gross Weight | _ | 7 kg | _ | _ | |
| LAN Module | NIM-C13A NIM-S13A NIM-S26A NIM-S26B | NIM-C13A NIM-S13A NIM-S26A NIM-S26B | PER-C35L, 10 G Fiber x 2 PER-C36L, 1 G Fiber x 4 PER-C37L, 1 G Copper x 8 w/2 pairs bypass PER-C38L, 1 G Copper x 8 w/4 pairs bypass | PER-C35L, 10 G Fiber x 2 PER-C36L, 1 G Fiber x 4 PER-C37L, 1 G Copper x 8 w/2 pairs bypass PER-C38L, 1 G Copper x 8 w/4 pairs bypass | |
| Swappable HDD Tray | Optional 2.5" Swappable HDD x 1 | _ | _ | | |

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Note: All specifications are subject to change without notice.

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Selection Guide











| Model | FWS-7520 | FWS-7400 | FWS-7350 | FWS-7250 | FWS-7200 |
|--------------------------|---|--|---|--|---|
| Application | Unified Threat Management (UTM) Virtual Private Network (VPN) Content Management (CM) Load Balancing Intrusion Detection System (IDS) Intrusion Prevention System (IPS) Firewall | Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus | Firewall, IDP/IPS, Load Balancing , Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus | Unified Threat Management (UTM) Virtual Private Network (VPN) Content Management (CM) Load Balancing Intrusion Detection System (IDS) Intrusion Prevention System (IPS) Firewall | Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network access Control, Web Filter, Anti-Spam/Virus |
| Form Factor | 10 | 1U 6 LAN Rackmount | 1U 4 LAN Rackmount | 1U 4 LAN Rackmount | 1U 6 LAN Rackmount |
| Processor | Intel® 5th Gen Xeon® Processors | Intel® 4th Gen Core™ Processor | Intel® C2758/C2558 SoC | Intel® Celeron® J1900 Intel® Atom™ E3845 | Onboard Intel® Dual-Core Atom™ D525 |
| Chipset | Integrated | Intel® H81 | _ | _ | ICH8M |
| System Memory | 288-pin DDR4 1600/1867/2133 RDIMM x 4 up to 128GB | 240-pin DDR3/3L 1333/1600 UDIMM x 4 up to 16 GB | 240-pin Dual-channel DDR3/3L ' 1333/1600 ECC/non-ECC UDIMM x 4, up to 16 GB | 204-pin DDR3L 1333/1066 S0DIMM x 2, Up to 8 GB | 240-pin Single Channel DDR3 800 SODIMM x 2, up to 4 GB |
| Ethernet | Up to 25 x 10/100/1000Base-TX Ethernet port (Optional w/ NIM), Up to 2 x 10GbE SFP+ or RJ-45 ports (Optional by module) | Intel® 82583V (FWS-7400-A10) or Intel® I211 (FWS-7400-B10) Gigabit Ethernet x 6 | Marvell 88E1543 PHY Gigabit Ethernet x 4 and NIM Module | IIntel® i210, Gigabit Ethernet x 4 | Intel® 82574L Gigabit Ethernet |
| Bypass | Depends on Network Interface Module | Up to 6 pairs bypass with NIM | Up to 6 pairs bypass with NIM | 2 pairs Bypass | One pair (up to 2 pairs) |
| Drive Bay | 3.5" SATA3 HDD x 1 or 2.5" SATA3 HDD x 2 (optional extra 4 HDD bay) 1 x CFast™ card slot (optional CF card) | Onboard SATA 3 x 2 (optional extra 3 SATA ports) | Onboard SATA 3 x 2 (optional extra 3 SATA ports) | Onboard SATA 2 x 1 | 3.5 HDD x 1 or 2.5" HDD x 2 |
| Cooling Fan | 2 | 2 | 1 | 4-pin header x 2 (Reserved) | 2 |
| Front I/O Panel | Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.0 x 2 NIM slots x 3 RJ-45 IPMI x 1 10GbE SFP+ or 2 x RJ-45 (Optional by module) x 2 LCM with keypad x 1 Software Programmable Switch x 1 | Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN LED x 12 USB 3.0 x 2 LAN x 6 RJ-45 Console x 1 LCM x 1 Reset Button x 1 NIM Slot x 1 Bypass LED (Optional up to 2) | Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN LED x 8 USB 3.0 x 2 LAN x 4 RJ-45 Console x 1 LCM x 1 Reset Button x 1 NIM Slot x 1 Bypass LED (Optional up to 2) | Power LED x 1 Status LED x 1, Bypass LED x 2 HDD Active LED x 1 LAN LED x 8 USB 2.0 Port x 2 RJ-45 Port x 4 RJ-45 Console x 1 Reset Button x 1 LCM with keypad x 1 | Power LED x 1 Hard Disk Drive Active LED x 1, Status LED x 1 Bypass LED x 1 LAN Active/Link LED x 6 LAN Speed LED x 6 Software Programmable Button x 1 Console x 1 USB 2.0 x 2 LAN x 6, LCM with Keypad x 1 |
| Rear I/O Panel | AC Power Input x 1 Power Switch x 1 Expansion Slot x 1 (optional 1 x PCIe [x4], use PCIe x8 connector) | _ | PCIe [x8] slot x 1 (w/ [x4] signals) for NIM, PCIe [x8] slot x 1 ([x8] signals) + PCIe [x8] slot x 1 (w/ [x4] signals)(optional) | ATX Power on/off x 1 AC Power input x 1 | PCIe Expansion Slot, Power on/off x 1 |
| Color | Black | Black | Black | Black | Black |
| Power Requirement | Flex ATX 250W and Redundant 220W | Flex ATX 250W | Flex ATX 100W | 100W AC Power Input x 1 | 1U ATX 180W |
| Storage Humidity | 10~80%@40°C, non-condensing | 10~80%@40°C, non-condensing | 10~80%@40°C, non-condensing | 10~80%@40°C, non-condensing | 10~80%@40°C, non-condensing |
| Anti-Vibration | 0.5Grms/ 5 \sim 500Hz/ Operation (3.5" H.D.D) 1.5Grms/ 5 \sim 500Hz/ No Operation | 0.5Grms/5 ~500 Hz/Operation | 0.5Grms/ 5 ~500 Hz/ Operation | 0.5Grms/ 5 \sim 500Hz/ Operation (2.5" H.D.D) 1.5Grms/ 5 \sim 500Hz/ No Operation | 0.5Grms/ 5 \sim 500Hz/ Operation (3.5" H.D.D) 1.5Grms/ 5 \sim 500Hz/ No Operation |
| Anti-Shock | 10G Peak Acceleration (11ms duration), operation 20G Peak Acceleration (11ms duration), non operation | 10G Peak Acceleration (11ms duration) | 10G Peak Acceleration (11ms duration) | 10G Peak Acceleration (11ms duration), operation 20G Peak Acceleration (11ms duration), non-operation | 10G Peak Acceleration (11ms duration), operation 20G Peak Acceleration (11ms duration), non-operation |
| Certification | CE/FCC | CE/FCC | CE/FCC | CE/FCC | CE/FCC |
| Dimension (W x H x D) | 16.9" x 1.7" x 18.7" (430mm x 44mm x 475mm) | 16.9" x 1.7" x 12" (430mm x 44mm x 305mm) | 16.9" x 1.7" x 12" (430mm x 44mm x 305mm) | 16.9" x 1.73" x 7.87" (430mm x 44mm x 200mm) | _ |
| Gross Weight | 7 kg | _ | _ | | _ |
| LAN Module | NIM-C13A NIM-S13A NIM-S26A NIM-S26B | PER-C35L, 10 G Fiber x 2 PER-C36L, 1 G Fiber x 4 PER-C37L, 1 G Copper x 8 w/2 pairs bypass PER-C38L, 1 G Copper x 8 w/4 pairs bypass | PER-C35L, 10 G Fiber x 2 PER-C36L, 1 G Fiber x 4 PER-C37L, 1 G Copper x 8 w/2 pairs bypass PER-C38L, 1 G Copper x 8 w/4 pairs bypass | | |
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Note



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| Model | FWS-2350 | FWS-2260 | FWS-2251 | FWS-2250 | FWS-2200 | FWS-2160 |
|--------------------------|--|---|--|--|--|---|
| Application | Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus | Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus | Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus | Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus | Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network access Control, Web Filter, Anti-Spam/Virus | Firewall, IDP/IPS, Load Balancing, Bandwidth Manager, Network Access Control, Web Filter, Anti-Spam/Virus |
| Form Factor | 1U 6 LAN Desktop | 1U 6 LAN Desktop | 1U 4 LAN Desktop | 1U 4 LAN Desktop | Desktop 6-port Network Appliance | Desktop 6-port Network Appliance |
| Processor | Intel® Atom™ C2558/C2358 SoC | Intel® Pentium® Processor N3700 | Intel® Celeron® Processor J1900 2GHz | Intel® Atom™ E3827/E3815/ Celeron® J1900 SoC | Onboard Intel® Dual-Core Atom™ D525 | AMD G-series T24L 1 GHz Processor |
| Chipset | | | | | ICH8M | AMD A50M |
| System Memory | 240-pin Dual-channel DDR3/3L 1333/1600 ECC/non-ECC UDIMM x 4, up to 16 GB | 204-pin DDR3L 1333/1600 SODIMM x 2 up to 8 GB | 204-pin DDR3L 1333 SODIMM x 2 up to 8 GB | 240-pin Single Channel DDR3L 1066 SODIMM x 2, up to 8 GB | Single Channel DDR 3 800 SODIMM x 2, up to 4 GB | 240-pin Single Channel DDR3 1066 SODIMM x 2, up to 8 GB |
| Ethernet | Intel® I211-AT x 2 and Marvell 88E1543 x 1 (4 ports Gigabit Ethernet) | Intel® Ethernet Controller I211-AT x 6, Gigabit Ethernet | Intel® Ethernet Controller I211-AT x 4, Gigabit Ethernet | Intel® Ethernet Controller I211-AT x 4, Gigabit Ethernet | Intel® 82574L x 6, Gigabit Ethernet | Realtek RTL8111E x 6, Gigabit Ethernet |
| Bypass | Optional up to 2 pairs bypass | Support 2 pairs Bypass | Support 1 pair Bypass | Optional up to 1 pair bypass | One pair (optional 2 pairs) | Optional up to 2 pairs bypass |
| Drive Bay | Onboard SATA 2 x 1 (Optional extra 2nd SATA 2 port) | CFast™ socket x 1, 2.5" HDD Bay x 1 | SATA II port on board x 1 (Horizontal design SATA DOM (no housing) only) | Onboard SATA 2 port x 1 (Optional) | 2.5" HDD x 1 | Onboard SATA 2 x 1 (Optional extra 2nd SATA 2 port) |
| Cooling Fan | 1 | Fanless | Fanless | Fanless | 2 | 1 |
| Front I/O Panel | Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN LED x 2 Bypass LED (Optional up to 2) | Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN LEDs x 12 Bypass LED (Optional up to 2) | RSSI LED x 2 Power LED x 1 Status LED x 1 HDD Active x 1 LAN LED x 8 SIM Card Cover x 1 | Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN LEDs x 8 Bypass LED (Optional up to 1) | Power LED x 1, Hard Disk Drive Active LED x 1, Status LED x 1, Bypass LED x 2, LAN Active/Link LED x 6, LAN Speed LED x 6 | Power LED x 1 Status LED x 1 HDD Active LED x 1 LAN LEDs x 12 Bypass LED (Optional up to 2) |
| Rear I/O Panel | 12V DC Power Input x 1 RJ-45 Console x 1 USB 2.0 x 2 LAN x 6 Software Programmable Button x 1 Power on/off x 1 | USB 3.0 x 2 RJ-45 Ports x 6 RJ-45 Console x 1 12V DC Power Input x 1 Software Reset Switch x 1 Power on/off x 1 HDMI x 1 (Optional) | RJ-45 Console x 1 USB 3.0 x 1 RJ-45 x 4 12V DC Power Input x 1 Reset Button x 1 | 12V DC Power Input x 1 RJ-45 Console x 1 USB 2.0 x 2 LAN x 4 Software Programmable Button x 1 Power on/off x 1 | USB x 2, LAN x 6 DB-9 connector x1, Software Programmable Switch x 1 | 12V DC Power Input x 1 RS-232 Console x 1 USB 2.0 x 2 LAN x 6 Software Programmable Button x 1 Power on/off x 1 |
| Color | Black | Black | White | White | Black | Black |
| Power Requirement | 60W@12V DC-In Adapter | 12V DC-In Connector x 1/ 60W Power Adapter | 12V DC-In Connector x 1/ 40W Power Adapter | 40W@12V DC-In Adapter | 60W@12V DC-In Power Adapter | 60W@12V DC-In Power Adapter |
| Storage Humidity | 10~80%@40°C, non-condensing | 10~90%, non-condensing | 10~95%@40°C, non-condensing | 10~80%@40°C, non-condensing | 10~80%, non-condensing | 10~80%@40°C, non-condensing |
| Anti-Vibration | 0.5Grms/5 ~500 Hz/Operation | 3Grms/ 5 ~ 500Hz/ Operation (CFast™ module) | 2.0Grms/ 5 ~ 500Hz /Operation (SATA DOM) | 0.5Grms/ 5 ~500 Hz/ Operation | 0.5Grms / 5 ~ 500Hz / Operation (2.5" H.D.D) 1.5Grms / 5 ~ 500Hz / No Operation | 0.5Grms/ 5 ~500 Hz/ Operation |
| Anti-Shock | 10G Peak Acceleration (11 ms duration) | 30G Peak Acceleration (11ms duration), operation | 30G Peak Acceleration (11ms duration), operation | 10G Peak Acceleration (11 ms duration) | 10G Peak Acceleration (11ms duration), operation 20G Peak Acceleration (11ms duration), non-operation | 10G Peak Acceleration (11ms duration) |
| Certification | CE/FCC | CE/FCC | CE/FCC | CE/FCC | CE/FCC | CE/FCC |
| Dimension (W x H x D) | 10.2" x 1.7" x 7" (260mm x 44mm x 178mm) | 10.2" x 1.7" x 7" (260mm x 44mm x 178mm) | 8.3" x 1.4" x 4.1" (210mm x 105mm x 35mm) | 5.9" x 1.2" x 3.9" (150mm x 30mm x 100mm) | 10.2" x 1.7" x 7" (260mm x 44mm x 178mm) | 10.2" x 1.7" x 7" (260mm x 44mm x 178mm) |
| Gross Weight | - | 2 kg | 1.4 kg | _ | _ | _ |
| LAN Module | - | _ | _ | _ | _ | _ |
| Swappable HDD Tray | _ | _ | _ | _ | _ | _ |

Note





Selection Guide

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Selection Guide

| | | | | Launching Q3 | | Launching Q3 |
|------------------|--|---|---|---|--|--|
| Model | PER-C35L | PER-C36L | PER-C38LA | PER-C38LB | PER-C39LA | PER-C39LB |
| Port | 2 Ports | 4 Ports | 8 Ports | 4 Ports | 8 Ports | 4 Ports |
| Description | Intel® 82599 10 GbE SFP 2 Ports Module | PCI-E Gigabit Ethernet Module w/ Intel® i210 Controller 1 GbE SFP 4 Ports Module | Intel® 82580EB Quad Gigabit Ethernet Controller 1 GbE copper 8 Ports Module | Intel® 82580EB Quad Gigabit Ethernet Controller 1 GbE copper 4 Ports Module | Intel® 82580EB Quad Gigabit Ethernet Controller 1 GbE SFP 8 Ports Module | Intel® 82580EB Quad Gigabit Ethernet Controller 1 GbE SFP 4 Ports Module |
| Ethernet Chip | 82599 x 1 | i210 x 4 | 82580 x 2 | 82580 x 1 | 82580 x 2 | 82580 x 1 |
| Speed | 10GbE | 10/100/1000 Base-TX | 10/100/1000 Base-TX | 10/100/1000 Base-TX | 10/100/1000 Base-TX | 10/100/1000 Base-TX |
| GbE LAN Port | - | _ | RJ-45 GbE x 8 | RJ-45 GbE x 4 | | |
| Fiber LAN Port | SFP/SFP+ x 2 | SFP x 4 | _ | _ | SFP 1GbE x 8 | SFP 1GbE x 4 |
| Bypass | — | _ | _ | — | — | _ |
| LAN Module Riser | PER-T281 (NIM) | PER-T281 (NIM) | PER-T281 (NIM) | PER-T281 (NIM) | PER-T281 (NIM) | PER-T281 (NIM) |
| Host Interface | PCI-e[x8] | PCI-e[x4] | PCI-e[x8] | PCI-e[x8] | PCI-e[2x4] | PCI-e[x4] |
| Where Use | FWS-7810-B10 FWS-7811 FWS-7350 FWS-7400-B10 | FWS-7810-B10 FWS-7811 FWS-7350 FWS-7400-B10 | FWS-7811 FWS-7810-B10 FWS-7350 | FWS-7811 FWS-7810-B10 FWS-7350 | FWS-7811 FWS-7810-B10 FWS-7350 | FWS-7811 FWS-7810-B10 FWS-7400-B10 FWS-7350 |
| Note | _ | _ | _ | _ | _ | _ |

| | | | Launching Q4 | | Launching Q3 |
|------------------|---|--|--|---|---|
| Model | NIM-C13A | NIM-S13A | NIM-S13B | NIM-S26A | NIM-S26B |
| Port | 8 Ports | 8 Ports | 4 Ports | 4 Ports | 2 Ports |
| Description | Intel® 82580EB Quad Gigabit Ethernet Controller 1 GbE copper 8 Ports Module | Intel® 82580EB Quad Gigabit Ethernet Controller 1 GbE SFP 8 Ports Module | Intel® 82580EB Quad Gigabit Ethernet Controller 1 GbE SFP 4 Ports Module | Intel® Fortville XL710 PCI-Express 10G SFP+ 4 ports Module | Intel® Fortville XL710 PCI-Express 10G SFP+ 4 ports Module |
| Ethernet Chip | 82580 x 2 (I350 x 2) | 82580 x 2 (I350 x 2) | 82580 x 1 (I350 x 1) | XL710 x 1 | XL710 x 1 |
| Speed | 10/100/1000 Base-TX | 10/100/1000 Base-TX | 10/100/1000 Base-TX | 10GbE | 40 GbE |
| GbE LAN Port | RJ-45 GbE x 8 | _ | _ | _ | _ |
| Fiber LAN Port | - | SFP 1GbE x 8 | SFP 1GbE x 4 | SFP+ 10GbE x 4 | QSFP 40GbE x 2 |
| Bypass | Bypass x 2 | _ | | | |
| LAN Module Riser | - | _ | _ | _ | _ |
| Host Interface | PCI-e[2x4] | PCI-e[2x4] | PCI-e[2x4] | PCI-e[x8] | PCI-e[x8] |
| Where Use | FWS-8500 FWS-7520 FWS-7820 | FWS-8500 FWS-7520 FWS-7820 | FWS-8500 FWS-7520 FWS-7820 | FWS-8500 FWS-7250 FWS-7820 | FWS-8500 FWS-7520 FWS-7820 |

Note



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