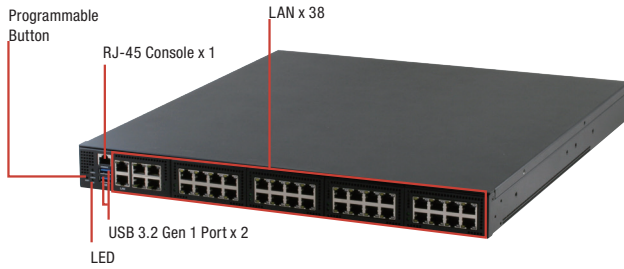
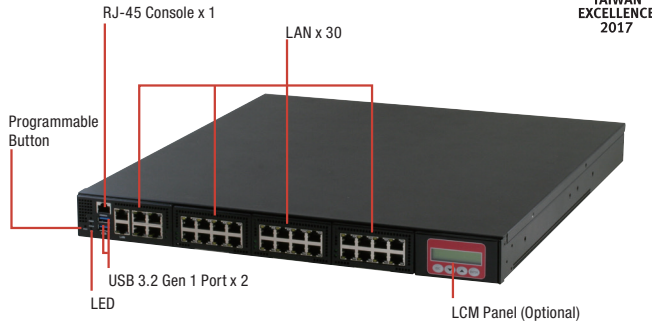


# FWS-7820

1U Rackmount Network Appliance, Intel® C236 with 3 to 4 Network Interface Modules

Front View



Rear View



## Features

- 1U Rackmount Network Appliance
- 6th Gen. Intel® LGA1151 Core™/ Xeon Processor
- 288-pin DDR4 1600/1866/2133 MHz ECC/U-DIMM x 4 Up to 64 GB
- Up to 10/100/1000Base-TX Ethernet Port x 38 (Depends on NIM)
- Up to 2 SATA 6 GB Ports (Internal 3.5" SATA HDD x 1 or 2.5" SATA HDD x 2) \*mSATA/ CF/ CFast will be Disabled if 2nd SATA HDD is Used
- CF Socket x 1 (Can be Replaced by CFast™ Socket or mSATA Slot)
- LCM with Keypad x 1 (3 NIM Slots SKU)
- RJ-45 for Console x 1, USB 3.2 Gen 1 x 2
- 250W AC Type Power Input Requirement
- VGA Header x 1 (Optional VGA Cable)



### Storage

HDDs	Internal 3.5" SATA HDD x 1 or 2.5" SATA HDD x 2 (Optional)* *(mSATA/ CF/ CFast will be disabled if 2nd SATA HDD is used)
CF/CFast/mSATA	CF socket x 1 (Optional BOM CFast™ socket or mSATA slot)

### Internal/ Expansion Interface

PCIe slot	PCIe [x4] signal use [x8] slot (3rd NIM slot will be disabled if PCIe Riser supported)
Mini-PCIe slot	—
IPMI	—
Keyboard and Mouse	Pin-header
USB	USB 3.2 Gen 1 x 2, Box Header (2.0mm)

### Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable, 1 sec per step
Software Button	GPIO Programmable push button x 1
TPM	TPM2.0 9665 (TPM v1.2 9660 optional)
GPIO	8 bits, BIOS default 4 bits input, 4 bits output.
FAN	2
MTBF (Hours)	71,852
Color	Black

### Environmental Parameters and Dimension

Power Requirement	250W ATX PSU
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10% ~ 80% relative humidity, non-condensing
Storage Humidity	10% ~ 80% @ 40°C, non-condensing
Vibration	0.5 Grms/ 5 ~ 500Hz/ operation (3.5" H.D.D) 1.5 Grms/ 5 ~ 500Hz/ no operation
Shock	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non-operation
Dimension (W X D X H)	16.93" x 18.7" x 1.73" (430mm x 475mm x 44mm)

### I/O Interfaces

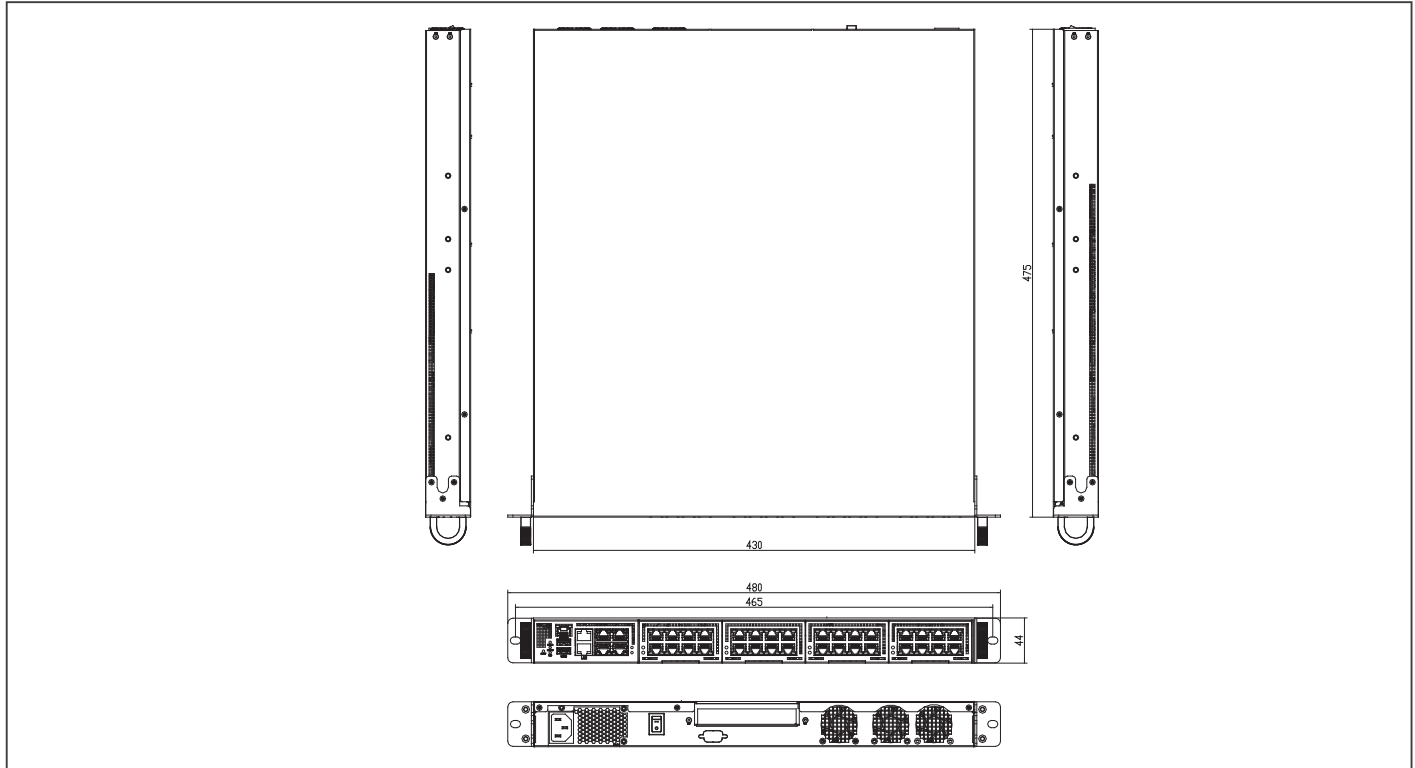
Front Panel	Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 (Optional w/ NIM slot) Software Programmable Switch x 1 Bypass LED x 2
Rear Panel	AC Power Input x 1 Power Switch x 1 VGA port (Optional) Rear Expansion Slot x 1 (Optional PCIe [x4] signal use [x8] slot, 3rd NIM slot will be disabled if PCIe Riser supported)

## Specifications

System	
Form Factor	1U Rackmount Network Platform
Processor	6th Generation Intel® Core™/ Xeon® processors
Chipset	Intel® C236
System Memory	- DDR4 1600/1866/2133 UDIMM/ECC - Up to 64GB - 288-pin DIMM x 4
Network	
Ethernet	Intel® i210 GbE x 2, Intel® 82580 x4
Bypass	Onboard 2 pairs bypass, others depend on NIM module
NIM Slot	4 (Max. 5 slots by project base)
Display	
Graphic Controller	Intel® HD graphics integrated
Connector	VGA cable (Optional)

### Dimension

Unit: mm



### Ordering Information

Part Number	CPU	Memory	Storage	Display	LAN	USB	Console	Bypass	NIM Slot
FWS-7820W6-H25-A10-000	6th Generation Intel® Core/Xeon Processors	DDR4 ECC/UDIMM (Up to 64 GB)	3.5" HDD Bay x 1 + CF Card Slot	—	1 GbE x 6	USB 3.2 Gen 1 x 2	RJ-45 x 1	2	3

\* Please contact AAEON for other optional specifications.

### Packing List

- Console Cable
- Ear Brackets
- FWS-7820

### Optional Accessories

- **M02666600**  
Slide x 2, for Rackmount Usage
- **1702031803**  
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **1702031802**  
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP22/YP12
- **170203180E**  
Power Cord, 3P-25V/7A, 180D, 1.8M, PSE, YP12/YP12
- **9761781027**  
VGA Cable
- **9761782008**  
(TF)2.5" x 2 HDD Moudle, FWS-7820
- **9761782000**  
(TF)3.5" x 1 HDD Moudle, FWS-7820
- **NIM-S26C-A10-T40-0002**  
Intel® Fortville XL710 PCI-Express 10G SFP+ 4 Ports Module for FWS-7820
- **NIM-S26B-A10-F20-0002**  
Intel® Fortville XL710 PCI-Express 40G QSFP 2 Ports Module for FWS-7820
- **NIM-S13B-A10-G80-0002**  
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7820
- **NIM-S13D-A10-G40-0002**  
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7820/7821
- **NIM-C13B-A10-G82-0001**  
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7820 w/ 2Pair bypass
- **NIM-C13D-A10-G42-0002**  
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7820 w/ 2Pair bypass