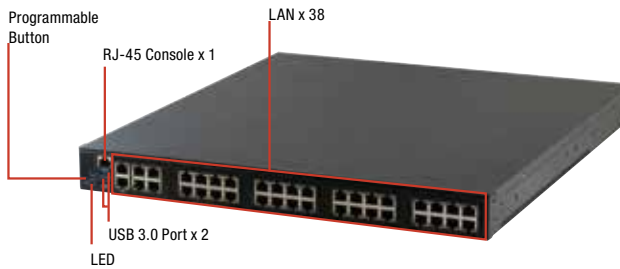
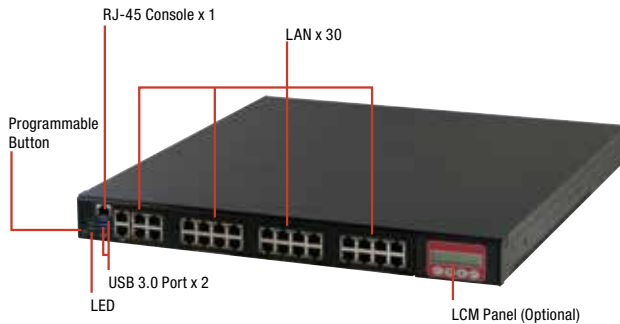


## 1U Rackmount Network Appliance, Intel® C236 with 4 Network Interface Modules

Front View



Rear View



## Specifications

Platform	
Form Factor	1U Rackmount Network Platform
Processor	Intel® 6th Generation Core™/ Xeon Processors
Chipset	Intel® C236
System Memory	- DDR4 1600/1866/2133 UDIMM/ECC - Up to 64GB - 288-pin DIMM x 4
Network	
Ethernet	1GbE x 6 + NIM
Bypass	On board Max to 2 pairs bypass, others depends on NIM module
NIM Slot	4
Display	
Graphic Controller	Intel® Integrated
Connector	VGA cable (Optional)

## 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 Second SATA HDD is Used
- CF Socket x 1 (Optional CFast™ Socket or mSATA Slot)
- LCM with Keypad x 1 (3 NIMs Sku)
- RJ-45 for Console x 1, USB 3.0 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 second SATA HDD is used)
CF/CFast/mSATA	CF socket x 1 (Optional CFast™ socket or mSATA slot)

## Expansion/Internal Interface

PCIe slot	PCIe [x4] signal use [x8] slot (2 NIM Slot SKU Optional)
Mini-PCIe slot	—
Keyboard and Mouse	—
Universal Serial Bus	Reserve pin-header
Miscellaneous	USB 3.0 x 2 Box Header (2.0mm) (optional)

## Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	Yes
GPIO	8bits, BIOS default 4 bits input, 4bits output.
FAN	3
MTBF (Hours)	—
Color	Black

## Environmental Parameters and Dimension

Power Requirement	250W ATX PSU
Operation Temp.	32°F ~ 104°F (0°C ~ 40°C)
Storage Temp.	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	10 ~ 80%
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
Chassis Dimension (W x D x H)	16.93" x 18.7" x 1.73" (430mm x 475mm x 44mm)

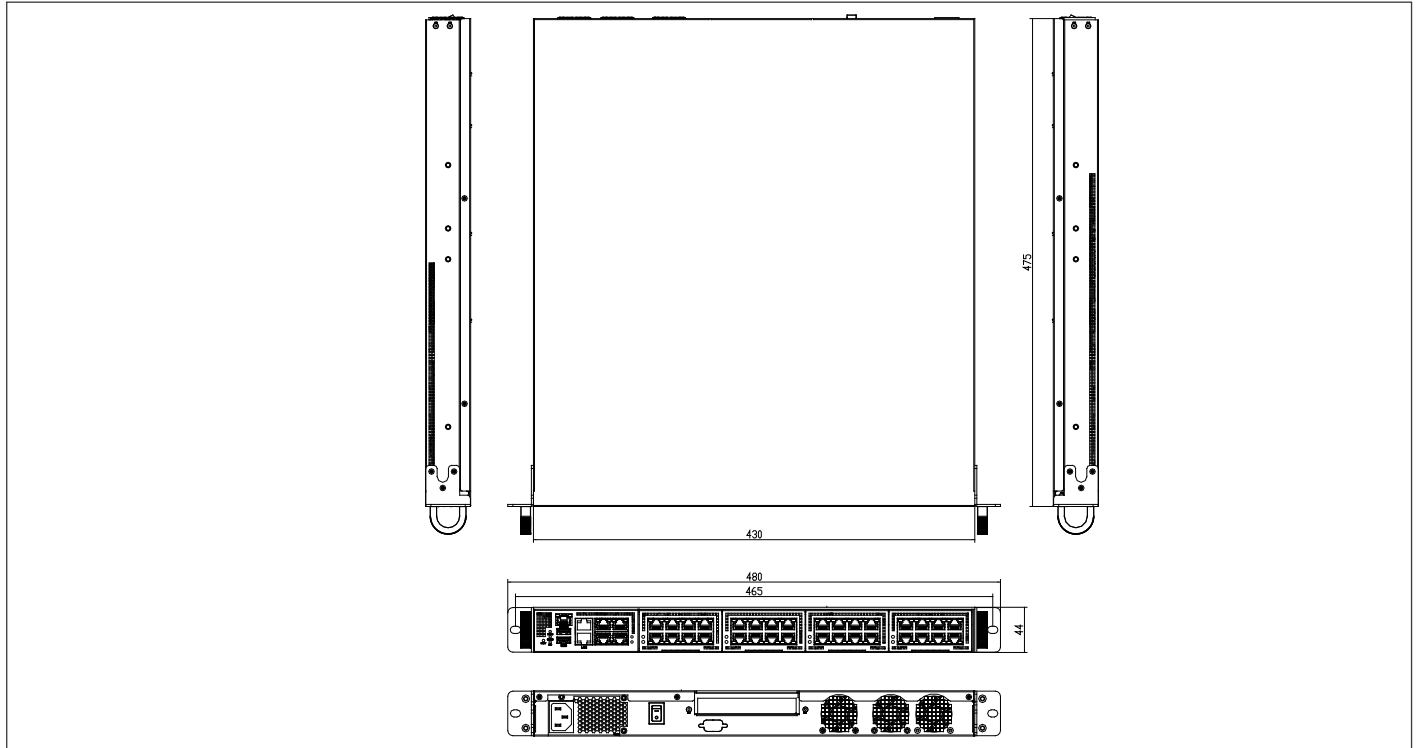
## I/O Interfaces

Front Panel	- Power LED x 1 - Status LED x 1 - HDD Active LED x 1 - USB 3.0 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
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)

# FWS-7820

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	Memory	Storage	Display	USB	USB	Console	Bypass	Nim Socket	Expansion 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	—	1 GbE x 6	USB 3.0 x 2	RJ-45 x 1	—	3	PCIe [x8] slot x 1

## 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
- **9761782000**  
(TF) 3.5" HDD Module
- **9761782001**  
(TF) 2.5" x 2 HDD Module
- **NIM-S26C-A10-01**  
Intel® Fortville XL710 PCI-Express 10G SFP+ 4 Ports Module for FWS-7820
- **NIM-S26B-A10-01**  
Intel® Fortville XL710 PCI-Express 40G QSFP 2 Ports Module for FWS-7820
- **NIM-S13B-A10-00**  
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7820
- **NIM-S13D-A10-00**  
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7820
- **NIM-C13B-A10-00**  
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7820
- **NIM-S13D-A10-00**  
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7820