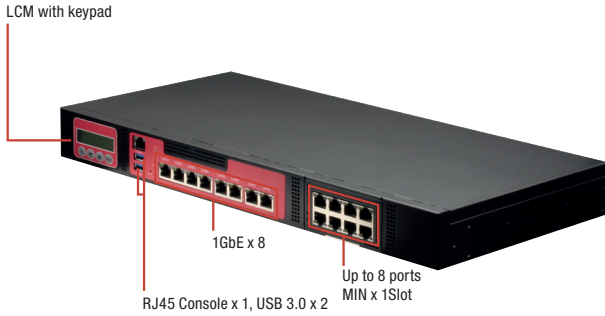
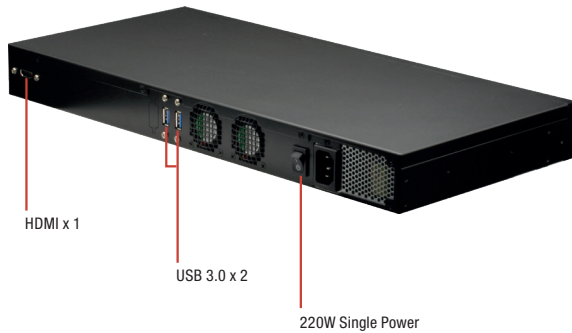


1U Rackmount Intel® 8th Generation Platform Network Appliance

Front View



Rear View



**Specifications**

<b>System</b>	
Form Factor	1U Rackmount Network Platform
Processor	Intel® Xeon® processor E-2100 family for Intel® C246 Chipset Intel® Core™/ Celeron® processor for Intel® H310 Chipset
Chipset	Intel®C246/H310
System Memory	DDR4 SODIMM x 2/ECC Up to 32GB DDR4 1600/1866/2133 SODIMM/ECC up to 32GB 260-pin DIMM x 2
<b>Network</b>	
Ethernet	Intel® i211 Gigabit Ethernet x 8 or Intel® i211 Gigabit Ethernet x 6 + SFP Ethernet ports x2 (C246) Intel® i211 Gigabit Ethernet x 6 (H310)
Bypass	2 Pairs
NIM Slot	Need to configure riser card

**Features**

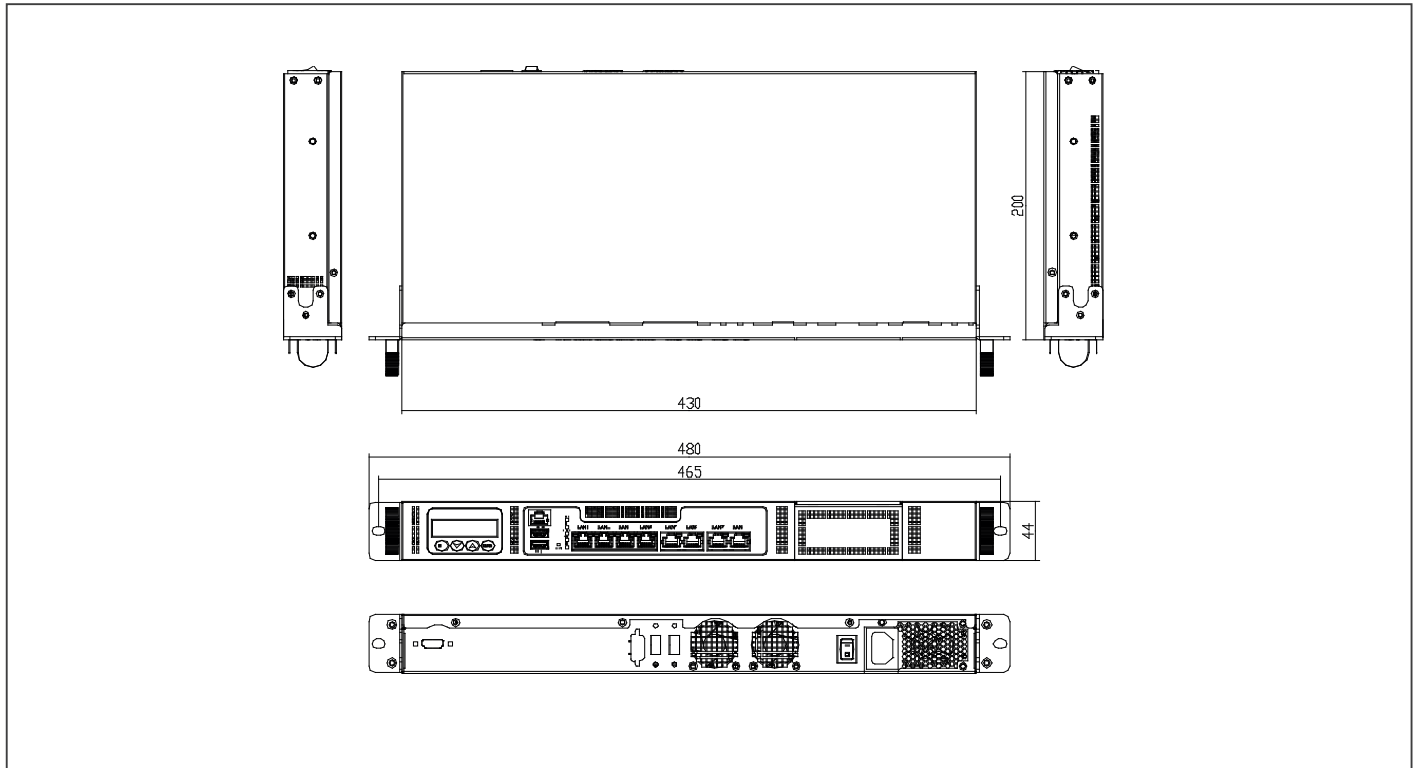
- Single Intel® 8th Generation Core™/Xeon™ processor
- Intel® Coffee Lake 2/6 Core (H310/C246)
- 2 x DDR4 SO DIMM/ECC Up to 32GB
- TPM Supported (Optional Request)
- LCM with Keypad x 1
- RJ-45 Console x 1, USB 3.0 x 2, HDMI x1
- 220W ATX PSU
- Intel® i211 Gigabit Ethernet x 8 or Intel® i211 Gigabit Ethernet x 6 + SFP Ethernet ports x2
- Mini-Card (mSATA)



<b>Display</b>	
Graphic Controller	Intel® UHD Graphics 630
Connector	(HDMI x1 Optional)
<b>Storage</b>	
HDDs	Internal 2.5" HDD bay x 2 or ( 3.5" HDD bay x 1 can't use with NIM Optional )
CF/CFast/mSATA	mSATA
<b>Internal/ Expansion Interface</b>	
PCIe slot	NIM Slot x 1
Mini-PCIe slot	Mini-Card x 1 (PCIe[x1] + mSATA)
IPMI	—
Keyboard and Mouse	NA
USB	USB 3.0 x 2
<b>Miscellaneous</b>	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	(TPM2.0 9665/TPM v1.2 9660 optional)
GPIO	4 bits input, 4 bits output
FAN	2
MTBF (Hours)	362,825 Hours
Color	Black
<b>Environmental Parameters and Dimension</b>	
Power Requirement	220W 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 (2.5" Hard Disk Drive) 1.5 Grms/ 5 ~ 500Hz / non operation
Shock	TBD
Dimension (W X D X H)	16.93" x 7.87" x 1.73"(430mm x 200mm x 44mm)
<b>I/O Interfaces</b>	
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
Rear Panel	AC Power Input x 1, Power Switch x 1, (Rear Expansion Slot x 1 Optional)

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	Memory	Mini-Card Slot	Storage	LAN	USB	Console	Bypass	NIM Slot*	Expansion Slot	TPM	Display	Fan	Mounting	Power
FWS-7831W8-H22-A10-000	Intel® 8th Generation Core™/ Xeon® Processors	2DDR4 S0 DIMM X2 / ECC Up to 32GB	Mini-Card x 1(Pcie[x1]+mSATA)	2.5" HDD Bay x 2	Intel® I211 Gigabit Ethernet x 8	USB 3.0 x 2	RJ-45 console x 1	2 Pairs	1	—	—	—	2	1U Rackmount	ATX

\* Note: Need to configure riser card and module  
(Please contact AAEON for other optional specifications.)

## Packing List

- Console Cable
- Ear Brackets
- FWS-7831

## Optional Accessories

- **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
- **9761783102**  
HDMI Cable with screw
- **9761783000**  
(TF)3.5x1 HDD Module, FWS-7830/7831
- **NIM-S26C-A10-T40-0002**  
Intel® Fortville XL710 PCI-Express 10G SFP+ 4 Ports Module for FWS-7820/7830/7831
- **NIM-S26B-A10-F20-0002**  
Intel® Fortville XL710 PCI-Express 40G QSFP 2 Ports Module for FWS-7820/7830/7831
- **NIM-S13B-A10-G80-0002**  
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7820/7830/7831
- **NIM-S13D-A10-G40-0002**  
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7820/7821/7830/7831
- **NIM-C13B-A10-G82-0001**  
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7820 w/ 2Pair bypass/7830/7831
- **NIM-C13D-A10-G42-0002**  
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7820 w/ 2Pair bypass/7830/7831
- **PER-R40X**  
NIM LAN Module Riser Card