

1U Rackmount Network Appliance with 10th Generation Intel® Core™/ Xeon® processor (formerly Comet Lake)

Front View



Rear View



Features

- 1U Rackmount Network Appliance
- 10th Generation Intel® Core™/ Xeon® processor
- Intel® Communications Chipset W480E
- 2 x DDR4 2666MHz U-DIMM ECC DIMM slots
- 8 x 1Gb RJ45 Port or 6 x 1Gb RJ45 + 2 x 1Gb SFP , with 2 x i350AM4 LAN Chips
- 2 x 10Gb SFP+ with XL710 AM2 LAN Chip (Option)
- 2 x NIM Slots
- 1 x RJ45 console Port (Option Micro USB console)
- 1 x Mini PCIe (Option mSATA)
- 2 Pairs Bypass default



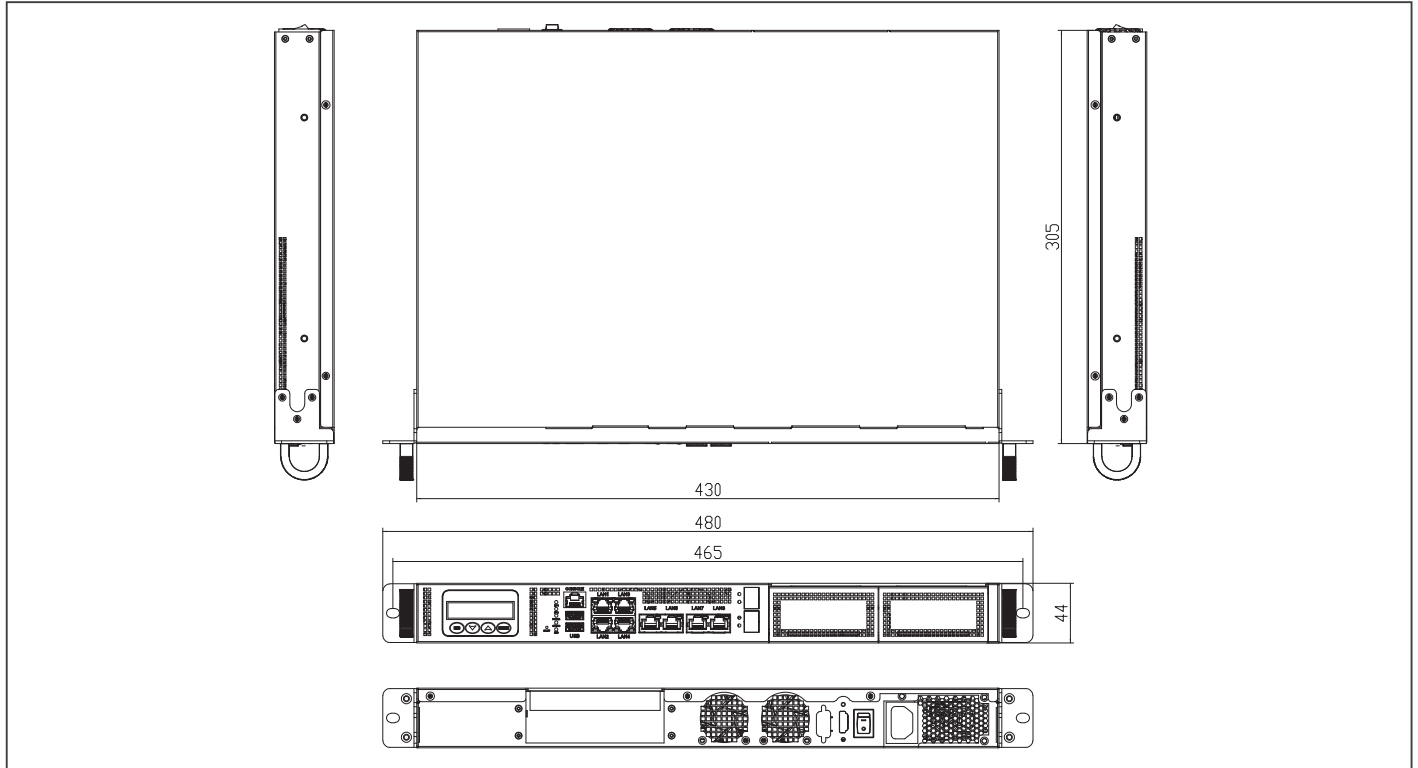
Storage	
HDDs	SATA III port x 2, 2.5" HDD/SSD up to 2
CF/CFast/mSATA	1 x Mini card socket (Option mSATA)
Internal/ Expansion Interface	
PCIe slot	Optional PCIe [x8] slot x 1, via riser card
Mini-PCIe slot	Mini Card x 1
IPMI	—
Keyboard and Mouse	—
USB	USB 3.2 Gen1 x 2
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	TPM v2.0 9665
GPIO	4 bits input/4 bits output
FAN	System Fan x 2
MTBF (Hours)	TBD
Color	Black
Environmental Parameters and Dimension	
Power Requirement	220W ATX PSU or 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)	430mm x 305mm x 44mm
I/O Interfaces	
Front Panel	Power LED x 1 Status LED x 1 Storage Active LED x 1 Bypass LED x 2 Ethernet LED x 16 USB 3.2 Type A port x 2 Parallel LCM display and 4 keypad x 1 Software Programmable Switch x 1 1 GbE RJ-45 x 8 or 1 GbE RJ45 x 6 + SFP x 2 10 GbE SFP+ x 2LAN port (Option by module) NIM Slot x 2
Rear Panel	AC Power Input x 1, Power Switch x 1, (Rear Expansion Slot x 1 Optional)

Specifications

System	
Form Factor	1U Rackmount Network Platform
Processor	10th Generation Intel® Core™/ Xeon® processor
Chipset	Intel® W480E
System Memory	2 x DDR4 2666MHz U-DIMM ECC DIMM slots up to 64G
Network	
Ethernet	8 x 1Gb RJ45 Port or 6 x 1Gb RJ45 + 2 x 1Gb SFP , with 2 xi350AM4 LAN chips 2 x 10Gb SFP+ with XL710 AM2 LAN chip (Option)
Bypass	2 Pairs
NIM Slot	NIM slot x 2
Display	
Graphic Controller	Intel® UHD Graphics
Connector	(HDMI x1 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-7840-E8-A10-00	Intel® 10th Generation Core™/Xeon® Processors	2 x DDR4 2666MHz U-DIMM/ECC DIMM slots up to 64G	1 x Mini card socket (USB2.0+PCIe)	2.5" HDD Bay x 2	Intel® I350 AM2 Gigabit Ethernet x 2	USB 3.2 Gen 1 x 2	RJ-45 x 1	2	2	—	TPM v2.0 9665	—	2	1U Rackmount	ATX 220W

Packing List

- Console Cable
- Ear Brackets
- SATA Cable x 2
- SATA Power Cable x 2
- HDD Kit x 1
- FWS-7840

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
- **9761783102**
HDMI Cable
- **PER-T639**
2Port SFP+ Module
- **PER-T629**
NIM Riser card
- **PER-T636**
Real expansion riser card
- **NIM-S26C-A10-T40-0002**
Intel® Fortville XL710 PCI-Express 10G SFP+ 4 Ports Module
- **NIM-S26B-A10-F20-0002**
Intel® Fortville XL710 PCI-Express 40G QSFP 2 Ports Module
- **NIM-S13B-A10-G80-0002**
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module
- **NIM-S13D-A10-G40-0002**
Intel® 82580EB PCI-Express 1G SFP 4 Ports
- **NIM-C13B-A10-G82-0001**
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module w/ 2Pair bypass
- **NIM-C13D-A10-G42-0002**
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module w/ 2Pair bypass