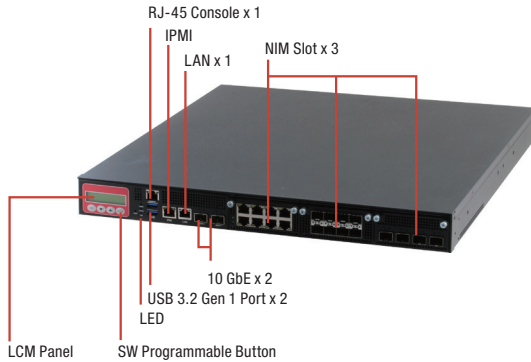


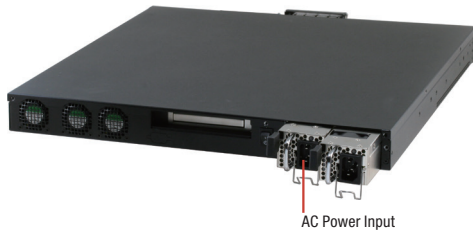
# FWS-7520

1U Rackmount Network Appliance, Intel® Xeon™ Processor SoC with 3 NIM Slots

Front View



Rear View



## Features

- 1U Rackmount Network Appliance
- Intel® FCBGA Xeon D-1548/D-1518 (Optional) SoC
- 288-pin ECC DDR4 x 4 1600/1867/2133MHz RDIMM Up to 128GB
- 10/100/1000Base-TX up to 24 Ethernet ports (Optional by NIM Modules)
- 10GbE SFP+ x 2
- IPMI (AST2500) Port x 1, VGA/BMC/KVMoIP Supported (Optional)
- 2.5" SATA HDD x 2 or 3.5" SATA HDD x 1 (Optional)
- LCM with Keypad x 1
- RJ-45 for Console x 1, USB 3.2 Gen 1 x 2
- 250W AC type/ 220W Redundant Power Input Requirement



### Internal/ Expansion Interface

PCIe slot	PCIe [x4] signal use [x8] slot (optional)
Mini-Card slot	Mini Card x 1
IPMI	Optional Module
Keyboard and Mouse	Pin-header
USB	USB 3.2 Gen 1 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	TPM v1.2
GPIO	8 bits, BIOS default 4 bits input, 4 bits output.
FAN	3
MTBF (Hours)	96,168
Color	Black

### Environmental Parameters and Dimension

Power Requirement	250W ATX PSU or 220W Redundant PSU (Optional)
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-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
Dimension (W X D X H)	16.93" x 18.7" x 1.73" (430mm x 475mm x 44mm)

### I/O Interfaces

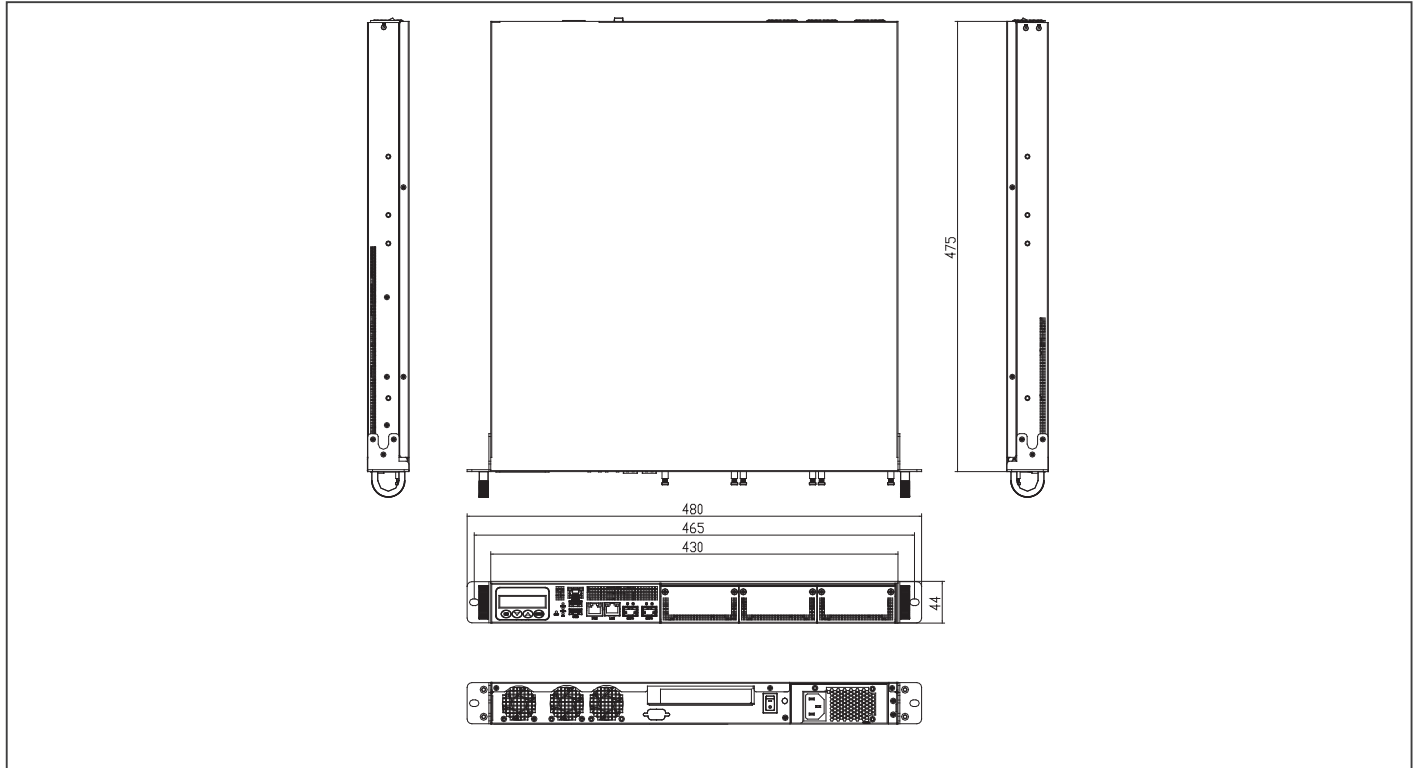
Front Panel	Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 Ports x 2 RJ-45 Console x 1 Parallel LCM display and 4 keypad x 1 Software Programmable Switch x 1
Rear Panel	AC Power Input x 1 Power Switch x 1 VGA port (Optional) Rear Expansion Slot x 1 (Optional PCIe [x4] signal use x8 slot)

## Specifications

<b>System</b>	
Form Factor	1U Rackmount Network Platform
Processor	Intel® FCBGA Xeon D-1548/D-1518 (Optional) SoC
Chipset	Integrated
System Memory	DDR4 1600/1866/2133 RDIMM/UDIMM/ECC, up to 128GB, 288 Pin DIMM x 4
<b>Network</b>	
Ethernet	Intel® i211, Gigabit Ethernet x 1 Inphi CS4227 phy 10 Gigabit Ethernet x 2 + NIM
Bypass	Depends on NIM
NIM Slot	3
<b>Display</b>	
Graphic Controller	IPMI integrated (Optional)
Connector	—
<b>Storage</b>	
HDDs	2.5" SATA HDD x 2 or 3.5" SATA HDD x 1 (optional)
CF/CFast/msATA	CF socket x 1 (Optional CFast™ socket)

### Dimension

Unit: mm



### Ordering Information

Part Number	CPU	Memory	Storage	Display	LAN	USB	Console	Bypass	NIM Slot	Expansion Slot	Mounting	Power
FWS-7520W3-H25-A10-010	Intel® Xeon D-1548 Processor	DDR3 RDIMM or ECC/UDIMM (up to 120GB)	2.5" HDD Bay x 2, CF Slot x 1	—	10G SFP+ x 2 GbE x 1	USB 3.2 Gen 1 X 2	RJ-45 x 1	—	3	PCIe (x8) slot x 1 (optional)	1U rackmount	ATX

### Packing List

- Gift Box (Including Console Cable, Ear Brackets)
- FWS-7520

### 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
- **9761EMPV01**  
VGA Module for FWS-7520/7350
- **NIM-S26B-A10-F20-0001**  
Intel® XL710 PCI Express 40GbE QSFP 2 Ports Module for FWS-7520
- **NIM-S26C-A10-T40-0001**  
Intel® XL710 4 x 10GbE SFP+ LAN Module for FWS-7520/7810/7820. Rev. A1.0
- **NIM-S13B-A10-G80-0001**  
Intel® 82580EB PCI-Express 1G SFP 8 Ports Module for FWS-7520
- **NIM-S13D-A10-G40-0001**  
Intel® 82580EB PCI-Express 1G SFP 4 Ports Module for FWS-7520
- **NIM-C13B-A10-G82-0002**  
Intel® 82580EB PCI-Express 1G Copper Ethernet 8 Ports Module for FWS-7520 w/ 2Pair bypass
- **NIM-C13D-A10-G42-0001**  
Intel® 82580EB PCI-Express 1G Copper Ethernet 4 Ports Module for FWS-7520 w/ 2Pair bypass
- **NIM-S13E-A10-G82-0001**  
LAN Module, Intel® 82580EB, 4 x 1GbE SFP, 2 Bypass, FWS-7520, Rev.A.1.0