

# FWS-7851 PRELIMINARY

1U Rackmount Network Appliance with 12th/13th Generation Intel® Core™ Processors

Front View



## Features

- 1U Rackmount Network Appliance
- 12th/13th Generation Intel® Core™ Processors, Intel® W680 Chipset
- DDR5 SODIMM x 2 ECC/non ECC, up to 64GB
- 2.5" SATA SSD x 2 (Optional: 3.5" x 1), M.2 2242 M-Key (PCIe [x4])
- Intel® I226-V 2.5GbE RJ-45 x 10 (Including 2 pairs Bypass) + Intel® I210-AT GbE SFP x 2 (Optional: 10GbE SFP+ x 2 (PCIe[x4] via PER-T639))
- Supports NIM Slot x 1
- Internal AC/DC 1U Flex ATX 220W x 1 (Optional: external redundant PSU)
- 16.93" x 7.87" x 1.73" (430mm x 200mm x 44mm)



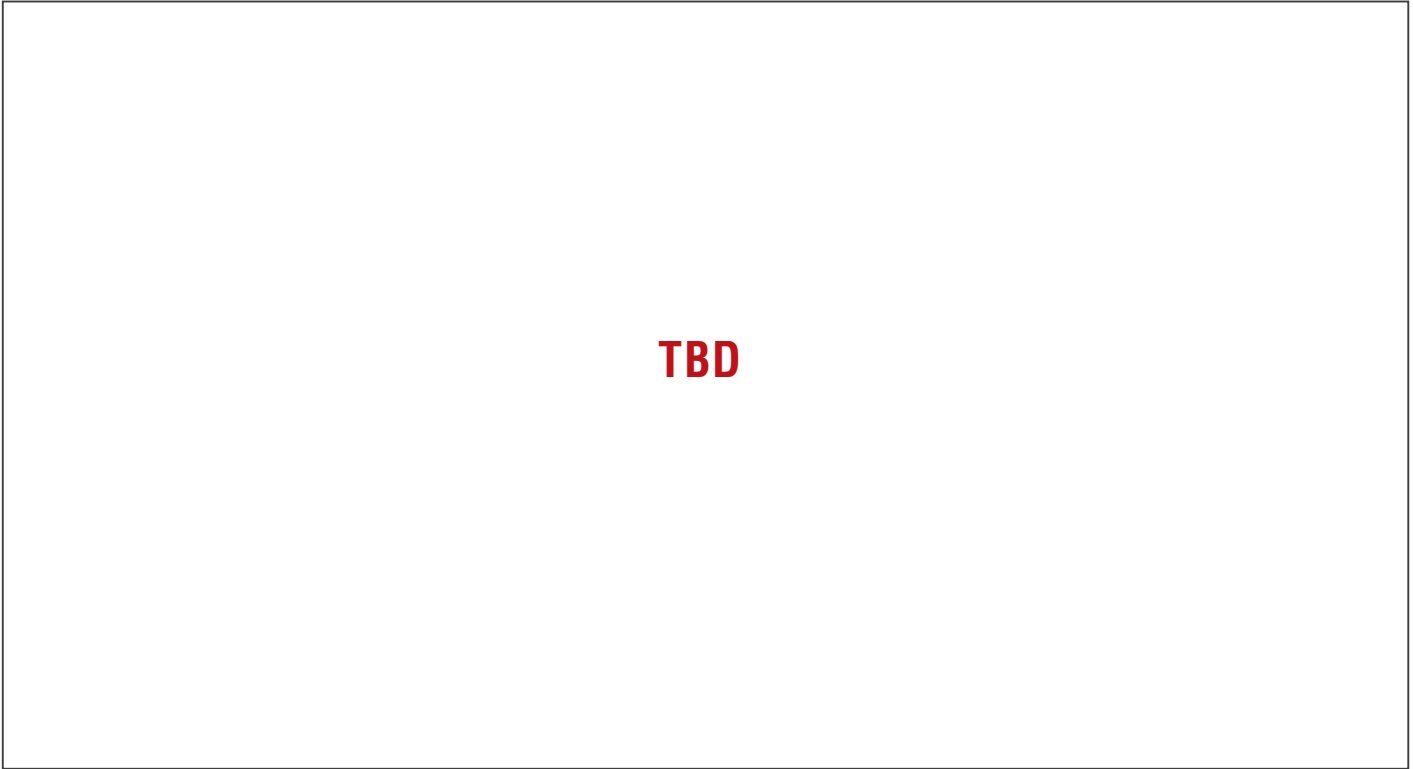
CF/CFast/mSATA	—
<b>Internal/ Expansion Interface</b>	
PCIe Slot	—
Mini-PCIe Slot	M.2 2242 M-Key (PCIe [x4]) x 1
IPMI	—
Keyboard and Mouse	—
USB	USB 3.2 Gen 1 x 2
<b>Miscellaneous</b>	
RTC	Internal RTC
Watchdog Timer	1~255
Software Button	1
TPM	TPM2.0 SPI
GPIO	Internal pin header 8-bit Digital I/O interface (4-in /4-out)
Fan	System Fan x 2
MTBF (Hours)	TBD
Color	Black
<b>Environmental Parameters and Dimension</b>	
Power Requirement	220W Power
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	0%~80% @40°C; non-condensing
Vibration	0.5 g rms/ 5 ~ 500Hz / operation (2.5" Hard Disk Drive) 1.5 g rms/ 5 ~ 500Hz / non operation
Shock	10 G peak acceleration (11 m sec. duration), operation 20 G peak acceleration (11 m sec. duration), non operation
Dimension (W X D X H)	16.93" x 7.87" x 1.73" (430mm x 200mm x 44mm)
<b>I/O</b>	
Front Panel	Intel® I226-V 2.5GbE RJ-45 x 10 (Including 2 pairs Bypass) + Intel® I210-IS GbE SFP x 2 (Optional: 10GbE SFP+ x 2 (PCIe[x4] via PER-T639)) Power LED x 1 Status LED x 1 HDD Active LED x 1 USB 3.2 Gen 1 x 2 HDMI x 1 RJ-45 Console x 1 LCM display with keypad x 1 Software Programmable Button x 1 NIM Slot x 1
Rear Panel	AC Power Input x 1 Power Switch x 1

## Specifications

<b>System</b>	
Form Factor	1U Rackmount Network Appliance
Processor	12th/13th Generation Intel® Core™ Processors
Chipset	Intel® W680 Chipset (Project Base: Intel® Q670, H610)
System Memory	DDR5 SODIMM slots x 2
<b>Network</b>	
Ethernet	Intel® I226-V 2.5GbE RJ-45 x 10 (Including 2 pairs Bypass) + Intel® I210-IS GbE SFP x 2 (Optional: 10GbE SFP+ x 2 (PCIe[x4] via PER-T639)) Note: Intel® H610 Chipset SKU limited to 2.5GbE RJ-45 x 8
Bypass	2 Pairs LAN Bypass 3.1 (LAN 3-4, LAN 5-6)
NIM Slot	NIM Slot x 1, support PCIe[x4] x 2 interface, optional PCIe[x8] x 1 by BOM SKU
<b>Display</b>	
Graphic Controller	—
Connector	HDMI port x 1
<b>Storage</b>	
HDD	2.5" HDD x 2 (default) or 3.5" HDD x 1 (if no NIM module present)

## Dimension

Unit: mm



## Packing List

- TBD

## Optional Accessories

- TBD

## Ordering Information

- TBD