

FWS-2291 PRELIMINARY

Network Appliance with Intel® Alder lake N / Amston lake SoC Processor

Launching in Q3

Specifications

System	
Form Factor	Desktop Network Appliance
Processor	Intel® Alder lake N / Amston lake SoC Processor
Chipset	SoC
System Memory	DDR5 SO-DIMM up to 16GB
Network	
Ethernet	Intel® i226 V, 2.5 Gigabit Ethernet x 4 Intel® i210IS, SFP x 2 (co-lay with i210AT Copper x2) by PCIe Bridge (ASM2806)
Bypass	2 Pairs
Display	
Graphics Controller	—
Connector	HDMI x 1 (Only support on Alder lake N)
Storage	
HDD	2.5" HDD Bay x 2, 1 SATA co-lay with M.2 2242
CF/CFast/mSATA	On board 32G eMMC, up to 128G
Internal/ Expansion Interface	
PCIe Slot	—
Mini-PCIe Slot	1.M.2 (B Key 3042+3052+ PCIe [x1]) by ASM2086 for 4G/5G (Co-lay Mini-Card full size slot) with Push-pin SIM for 4G LTE/Wifi (USB3.2+USB 2.0+ PCIe [x1]) reserve 3042 screw hold for 4G LTE, Without ASM 2806, only USB3.2+2.0 signal for 4G LTE/5G. 2.M.2 E Key 2230 (Co-lay Mini-Card Half-size slot for Wifi) (PCI-E [x1]+ USB 3.2 & 2.0) 3.[x4] PCIe connector slot (PCIe [x1] x 2 by ASM 2806) for 2 x 2.5GbE i226V module (optional support PoE/PoE+ PIC-POE)
Keyboard and Mouse	—
USB	2 x USB 3.2 Gen 1 type A port
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 step by software programmable
Software Button	GPIO Programmable push button x 1
TPM	SPI TPM v2.0 (optional) nuvoton co-lay Infineon SLB 9672VU2.0 FW15.21
GPIO	(4 bits input, 4bits output optional)
Fan	Fan-less/ Fan
MTBF (Hours)	TBD

Features

- Desktop Network Appliance
- Intel Alder lake N / Amston lake SoC
- DDR5 SO-DIMM up to 16GB
- Intel® i226V , 2.5 Gigabit Ethernet x 4 + Intel® i210IS, SFP x 2
- TPM v2.0 (Optional)
- M.2 USB 3.2 (B Key 3052) for 5G (Co-lay Mini-Card slot x 2 with Push-pin SIM for 5G/ 4G LTE/Wifi)
- M.2 PCI-E [x1] (E Key 2230) (Co-lay Mini-Card slot for WiFi)



Color	Black
Environmental Parameters and Dimension	
Power Consumption	Dual in 12V 40W Adapter (w/o POE) Dual in 12V 96W Adapter (w/ POE)
Operating Temperature	32 ~ 122°F (0 ~ 40°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Operating Humidity	10%~90% relative humidity, non-condensing
Storage Humidity	10 ~ 80% @ 40C, non-condensing
Vibration	0.5G / 5 ~ 500Hz / operation 1.5G / 5 ~ 500Hz / non-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)	Standard: 220mm x 105mm x 44mm(W x D x H) Support POE card (PIC-POE): 260mm x 178mm x 44mm(W x D x H)
I/O	
Front Panel	Power LED x 2 Status LED x 1 Bypass LED x 2 Storage Active LED x 1 Ethernet LED x 12 Antenna Hole x 2 Accessible SIM slot x 2 -Optional 2.5G Lan module x 2 (optional with POE af/at) change the housing
Rear Panel	DC Power Input Connector Lockable x 2 Power Button x 1 USB 3.2 Gen 2 Port x 2 RJ-45 Port x 4 Fiber RJ45 x 2 Type C console x 1 Antenna Hole x 4

Packing List

- Power Adapter x 1
- FWS-2291

Ordering Information

- TBD