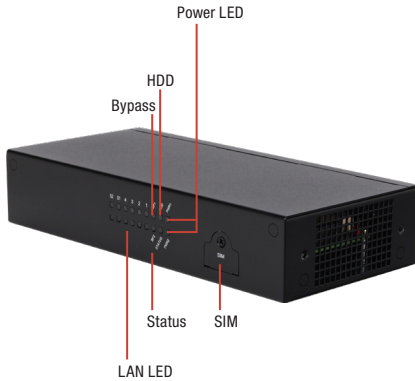


FWS-2291 PRELIMINARY

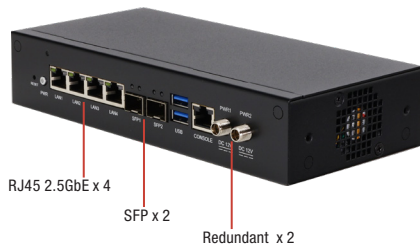


Network Appliance with Intel® Alder lake N / Amston lake SoC Processor

Front View



Rear View



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 x2 (co-lay with i210AT Copper x2) by PCIe Bridge ASM1806
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

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)

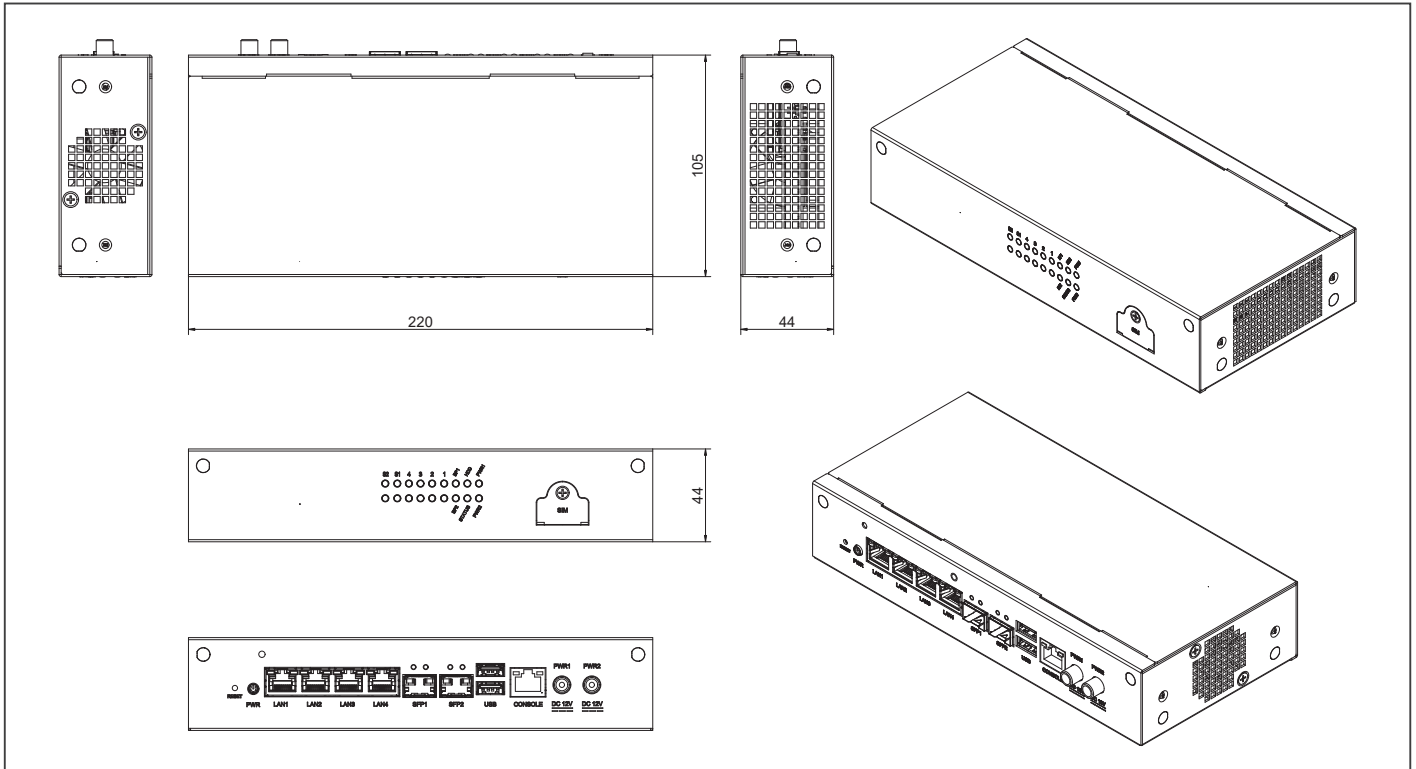


Internal/ Expansion Interface	
PCIe Slot	—
Mini-PCIe Slot	M.2 B Key x 1 (3042+3052+ PCIe [x1]) by ASM1086 for 4G/5G, Co-lay Mini-Card full size slot) with Push-pin SIM for 4G LTE/Wifi (Without ASM 1806, only USB 3.2 Gen 1+2.0 signal for 4G LTE/5G.) M.2 E Key x 1 (2230, Co-lay Mini-Card Half-size slot for WiFi)
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 x 1
MTBF (Hours)	TBD
Color	Black
Environmental Parameters and Dimension	
Power Consumption	Dual in 12V 40W Adapter Dual in 12V 60W Adapter for Amston Lake X7809C SKU
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)
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 4 Accessible SIM slot x 2
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 Antenna Hole x 4



Dimension

Unit: mm



Packing List

- Power Adapter x 1
- FWS-2291

Ordering Information

- TBD

Optional Accessories

- TBD