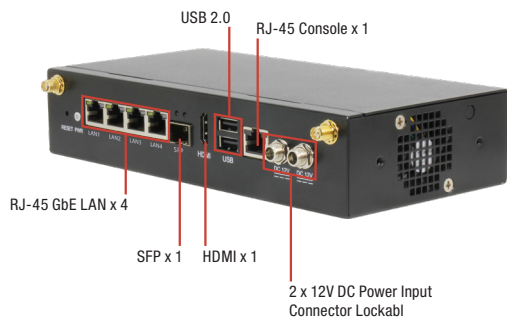


Front View



Rear View



Features

- Intel® Elkhart lake SoC Processor, 2~4 cores
- 260-pin DDR4 3200MHz SODIMM x 1, Up to 32GB
- Intel® i211 GbE x 4, Intel® i210 SFP x 1
- Mini-Card full size (with SIM socket) x1
- Mini-Card half size slot x1
- M.2 B key 3052 slot (with SIM socket) x 1 (Optional)
- Redundant power support



Internal/ Expansion Interface

PCIe Slot	—
Mini-PCIe Slot	Mini Card Socket (PCIe + USB 2.0, full size) with SIM x1 Mini Card Socket (PCIe, half size) x1 M.2 B key 3052 (USB 3.0, full size) with SIM x1(Optional)
Keyboard and Mouse	—
USB	USB 2.0 Type A x 2

Miscellaneous

RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	(TPM SLB9670 VQ2.0 FW7.85 Optional)
GPIO	(4 bits input, 4bits output optional)
Fan	Fan-less
MTBF (Hours)	TBD
Color	Black

Environmental Parameters and Dimension

Power Requirement	2 x 12V DC Power Input Connector Lockable, 40W power adapter
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 (mSATA) 1.5 Grms/ 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)	8.27" x 4.09" x 1.73" (210mm x 105mm x 44mm)

I/O

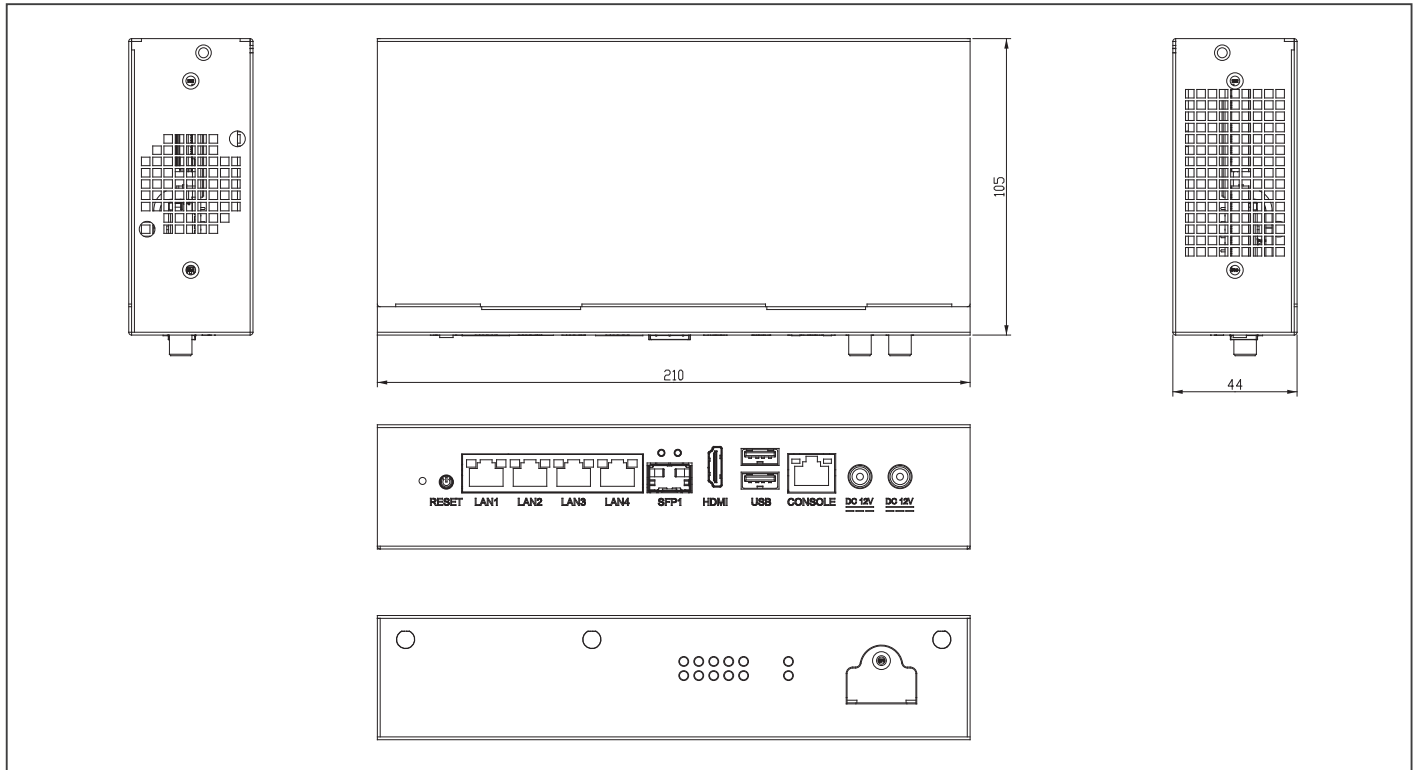
Front Panel	3 x LEDs (Power, Status, Storage) 1 x Micro-SIM 2 x Antenna Hole
Rear Panel	2 x DC Power Input Connector Lockable 1 x Power Button 2 x USB2.0 Ports 4 x 1GbE RJ45 Ports, 1 SFP 1 x RJ-45 console 1 x Reset Button 3 x Antenna Hole

Specifications

System	
Form Factor	Desktop Network Appliance
Processor	Intel Elkhart lake SoC Processor 2~4 cores
Chipset	SoC
System Memory	260-pin DDR4 SO-DIMM x 1, 3200MHz
Network	
Ethernet	Intel® i211, Gigabit Ethernet x 4 Intel® i210, SFP x 1
Bypass	—
Display	
Graphic Controller	Intel® UHD Graphics
Connector	HDMI x 1
Storage	
HDD	—
CF/CFast/MSATA	mSATA slot x 1 SATA III port x 1

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	Bypass	Mini-Card Slot	Storage	LAN	USB	Console	System Fan	TPM	Display	Mounting	Power
FWS-2280-E5-A10-000	Intel® Elkhart Lake J6412	DDR4 3200 SODIMM socket x 1	—	Mini Card Socket (PCIe +USB) x1(Full size) Mini Card Socket (PCIe) x1 (Half size)	SATA III Port x 1	4 x 1Gb RJ-45 1 x 1Gb SFP	USB2.0 TypeA	RJ-45 x 1	Fan-less	—	1 x HDMI	Desktop	DC 12V Power adapter x1

Packing List

- Power Adapter x 1
- FWS-2280
- 2.5" SSD Bay x 1

Optional Accessories

- **1700091805**
Console Cable
- **1702031802**
Power Cord, 3P-250V/10A, 180D, 1.8M, USA, YP12/YC-12
- **1702031803**
Power Cord, 3P-250V/10A, 180D, 1.8M, VDE, YP22/YP12
- **170203180B**
Power Cord, 3P-250V/10A, 180D, 1.8M, China, YP-03/YC-12
- **170203180E**
Power Cord, 3P-125V/7A, 1.8M, PSE, YP12/YC-12