

Specifications

System	
Form Factor	Desktop Network Appliance
Processor	Intel® Processor N-series, 2~8 cores
Chipset	SoC
System Memory	Onboard LPDDR5, up to 16GB
Network	
Ethernet	Intel® Ethernet Controller I226-V, 2.5GbE x 4
Bypass	1 Pair
Display	
Graphics Controller	Intel® UHD Graphics
Connector	HDMI x 1 (Optional)
Storage	
HDD	2.5" HDD Bay x 1
CF/CFast/mSATA	32G eMMC SATA 6Gb/s x 1

Features

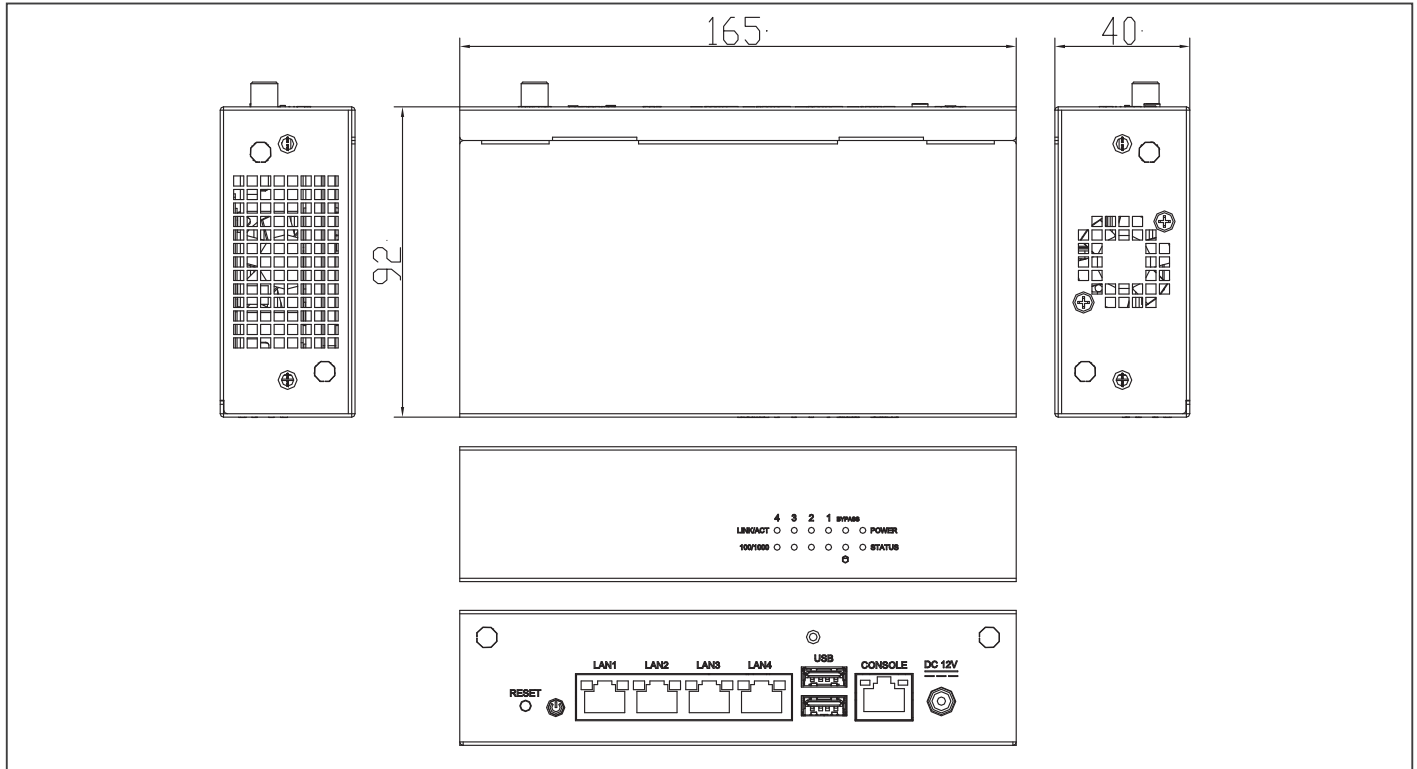
- Intel® Processor N-series, 2~8 cores
- Onboard LPDDR5 4GB, up to 16GB
- Intel® Ethernet Controller I226-V, 2.5GbE x 4
- M.2 3052 B-Key for 5G (Co-lay Mini-Card slot with Push-pin SIM for 4G LTE/Wi-Fi)
- M.2 2230 E-Key (Co-lay Mini-Card slot for Wi-Fi)



Internal/ Expansion Interface	
PCIe Slot	—
Mini-PCIe Slot	M.2 3052 B-Key (5G, Colay Mini Card with Push-pin SIM for 4G LTE/Wi-Fi) M.2 2230 E-Key (Colay Mini Card slot for Wi-Fi)
Keyboard and Mouse	—
USB	USB 3.2 Gen 2 x 1 USB 2.0 x 1
Miscellaneous	
RTC	Internal RTC
Watchdog Timer	1~255 steps by software programmable
Software Button	GPIO Programmable push button x 1
TPM	(TPM 2.0 SLB9670 VQ2.0 FW7.85, optional)
GPIO	4-bit Input, 4-bit Output (optional)
Fan	Fan x 1
MTBF (Hours)	952,764
Color	Black
Environmental Parameters and Dimension	
Power Consumption	12V Lockable DC Power Input Connector x 1 (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)	6.5" x 3.62" x 1.57" (165mm x 92mm x 40mm)
I/O	
Front Panel	Power LED x 1 Status LED x 1 Bypass LED x 1 Storage Active LED x 1 Ethernet LED x 8 (Accessible SIM slot x 1 Optional) Antenna Hole x 2 (Right panel) Antenna Hole x 2 (Left panel)
Rear Panel	Lockable DC Power Input Connector x 1 Power Button x 1 USB 3.2 Gen x 1 USB 2.0 x 1 RJ-45 x 4 RJ-45 Console x 1 Reset Button x 1 Antenna Hole x 2

Dimension

Unit: mm



Packing List

- Power Cable x 1
- SATA Cable x 1
- Power Adapter x 1
- FWS-2290

Optional Accessories

- **1700091805**
Console Cable
- **170X000799**
Power Cord.3P.125V.10A.180D.USA.1.8M
- **170X000800**
Power Cord.3P.250V.10A.VDE.1.8M
- **170X000815**
Power Cord.3P.250V.10A.180D.CHINA.1.8M
- **170X000803**
Power Cord.3P.125V/7A.PSE Certificate.1.8M

Ordering Information

Part Number	CPU	Memory	Mini-Card Slot	Storage	LAN	USB	Console	Bypass	Expansion Slot	TPM	Display	Fan	Mounting	Power
FWS-2290-E4-A10-000	Intel® Processor N97	Onboard 4G LPDDR5	—	32G eMMC SATA III port x 1 2.5" HDD Bay x 1	Intel® Ethernet Controller I226-V, 2.5GbE x 4	USB 3.2 Gen 2 x 1 USB 2.0 x 1	Console x 1	1 Pair	M.2 B key 3052 Socket x1 M.2 E key 2230 Socket x1	Optional	Optional	Fan x 1	Desktop	DC