

# EC70A-ADN

Intel® Processor N-series  
Fanless Embedded System

## KEY FEATURES



### Alder Lake-N

Intel® Core™ i3-N305 Processor  
6M Cache, up to 3.80 GHz



### Dual Displays

1 HDMI, 1 Type-C DP



### DDR5

1 DDR5 SO-DIMM



### Multiple Expansion

1 M.2 M Key, 1 M.2 B Key, 1 M.2 E Key

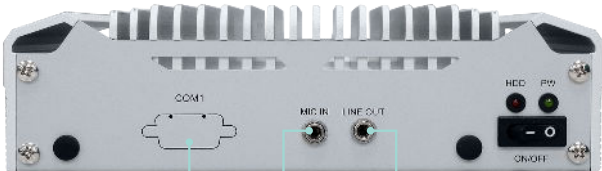


### Rich I/O

3 2.5GbE LAN, 4 USB 3.2, 2 USB 2.0, 1 COM,  
1 Line-out, 1 Mic-in

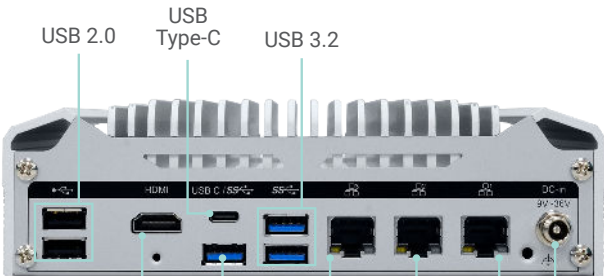


## PANEL



COM1 Mic-in Line-out

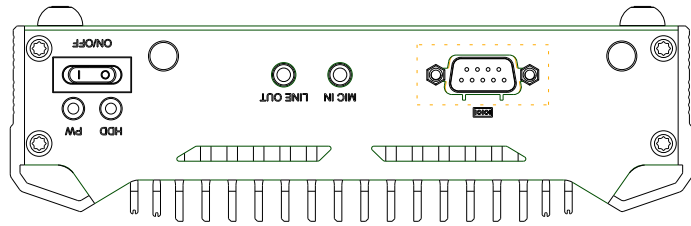
Front View



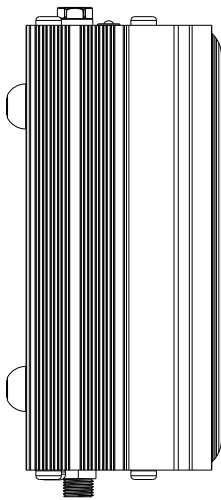
HDMI USB 3.2 2.5G LAN DC-in

Rear View

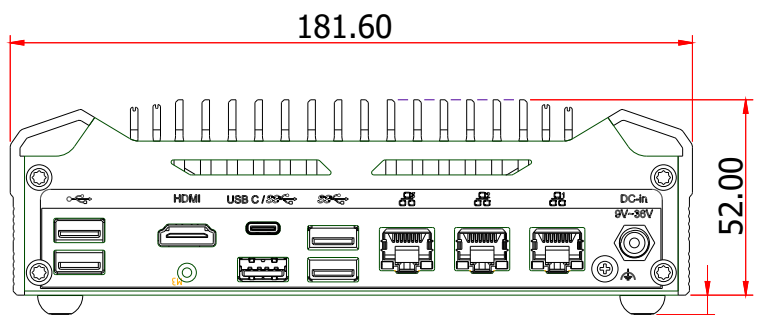
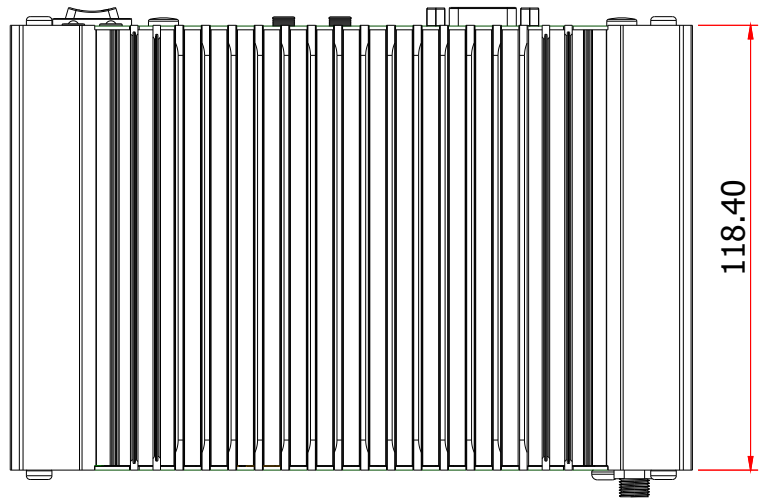
## DIMENSIONS



Front View



Flank View



Rear View

## SPECIFICATION

SYSTEM	Processor	Intel® Atom® Alder Lake-N Processors, TDP up to 15W Intel® Core™ i3-N305, 8 cores, 6M Cache, up to 3.80 GHz, 15W	
	Memory	1 x DDR5 4800 MT SO-DIMM up to 32GB	
	BIOS	AMI SPI 256Mbit	
GRAPHICS	Controller	Intel® UHD Graphics	
	Feature	OpenGL 4.6, Direct X 12.1, OpenCL 3.0 HW Decode: HEVC, VP9, AV1, AVC HW Encode: HEVC, VP9, AVC	
	Display	1 x HDMI 1 x Type-C DP Alt. Mode	HDMI: resolution up to 4096x2160 @24Hz DP: resolution up to 3840x2160 @60Hz
	Dual Displays	HDMI + Type-C DP Alt. Mode	
STORAGE	Internal	1 x M.2 M key 2280/2242 (PCIe Gen3 x1/SATA3.0)	
EXPANSION	Interface	1 x M.2 M key 2280/2242 (PCIe Gen3 x1/SATA 3.0) 1 x M.2 B key 3052/3042 (USB 3.0/USB 2.0, optional PCIe x1), 1 x SIM slot for 4G/5G 1 x M.2 E key 2230 (USB/PCIe x1, support CNVi)	
AUDIO	Audio Codec	Realtek ALC888S	
ETHERNET	Controller	3 x Intel® I226V/IT(10/100/1000/2500Mbps). LAN3 option with M.2 3052 PCIe x1.	
LED	Indicators	1 x Power LED 1 x HDD LED	
FRONT I/O	Serial	1 x COM RS-232/422/485	
	Audio	1 x Mic-in 1 x Line-out	
REAR I/O	Ethernet	3 x 2.5GbE (RJ-45)	
	USB	4 x USB 3.2 2 x USB 2.0	
	Display	1 x HDMI 1 x Type-C DP Alt. Mode	
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
SECURITY	TPM	dTPM 2.0	
POWER	Type	Wide range 9~36V	
	Connector	DC Jack	
OS SUPPORT	OS Support (UEFI Only)	Windows 10 IoT Enterprise (64-bit) Linux	
ENVIRONMENT	Operating Temperature	-5 to 60°C	
	Storage Temperature	-20 to 85°C	
	Relative Humidity	5 to 95% RH (non-condensing)	
MECHANISM	Construction	Aluminum + Metal Aluminum	
	Mounting	Wall/VESA/DIN rail mount	
	Dimensions (W x H x D)	181.6mm x 52mm x 118.4mm	
	Weight	TBD	
STANDARDS AND CERTIFICATIONS	Shock	Operating: IEC 60068-2-27 Test Ea: Shock Test Half-Sine, 3G @ 11ms, 18 Shock ±X, ±Y, ±Z (each axis 3 times)	
	Vibration	Operating: IEC 60068-2-64 Test Fh: Vibration Board-Band Random Test Random, 1Grms @ 5~500 Hz, 30min Non-Operating: IEC 60068-2-6 Test Fc: Vibration Sinusoidal Test Sweep Sine, 3Grms @ 10~500Hz, 30min	
	Certifications	CE, FCC Class A, RoHS	

## ORDERING INFORMATION

Model Name	Part Number	Description
EC70A-ADN	750-EC70A4-000G	EC70A-ADN: ADN553, Fanless, i3-N305, HDMI + DP(Type C), 9~36VDC, -5~60°C, F/G SYSTEM RoHS

## PACKING LIST

1 EC70A-ADN system unit
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