

# KIT-ADN Series

Industrial Open Frame Panel PC



## KEY FEATURES



### Touch Screen

P-Capacitive Touch supports 10 points



### LPDDR5

LPDDR5 4800 MHz memory down



### Up to Quad Display Support

Support via HDMI/USB-C/LVDS



### Easy Integration

Easy installation and maintenance

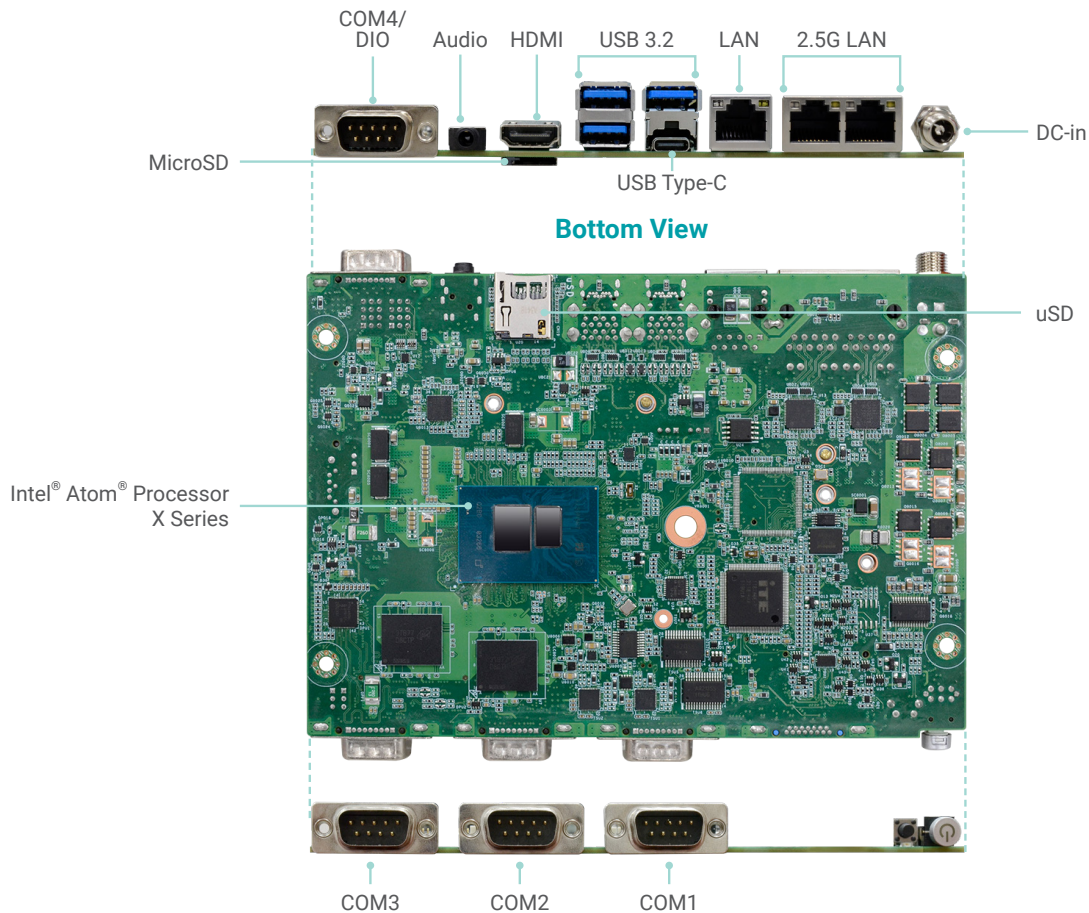


### On Board OOB Built-in (Opt.)

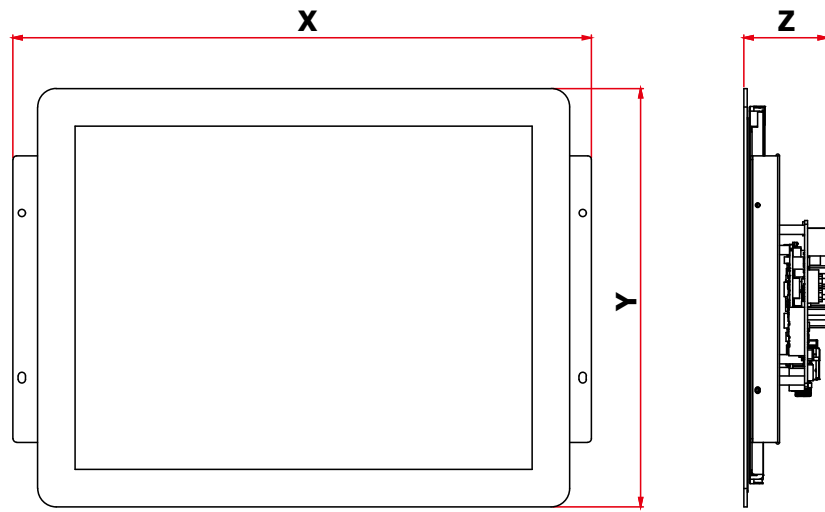
Hardware status remote control & monitor



## System



## DIMENSIONS



Front View

Right View

Display Type	System Dimensions (mm)		
	W	H	D
7" LCD	203	118	TBD
10.1" LCD	279.1	172.95	TBD
12.1 LCD	312.9	226.25	TBD

## SPECIFICATION

Model Name		KIT070P-ADN	KIT101P-ADN	KIT121P-ADN
DISPLAY & TOUCH SCREEN	Display Type	7" TFT LCD	10.1" TFT LCD	12.1" TFT LCD
	Aspect Ratio	16:9	16:10	4:3
	Max. Resolution	800 x 480	1280 x 800	1024 x 768
	Brightness	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
	Touch Type	Projected Capacitive	Projected Capacitive	Projected Capacitive
	Backlight Lifetime	40,000 hours	50,000 hours	30,000 hours
ENVIRONMENT	Operating Temperature	0~50°C with 0.6m/s air flow	0~50°C with 0.6m/s air flow	0~50°C with 0.6m/s air flow
	Storage Temperature	-30~80°C	-30~80°C	-30~80°C
	Relative Humidity	5 to 90% RH (non-condensing)	5 to 90% RH (non-condensing)	5 to 90% RH (non-condensing)
SYSTEM	Processor	Intel Alder Lake-N Series Intel PC Client Series Intel® Processor N50 2 Cores, 1.0GHz to 3.4 GHz Intel® Processor N97 4 Cores, 2.0GHz to 2.9 GHz Intel® Processor N200 4 Cores, 1.0GHz to 3.2 GHz Intel® Core™ i3-N305 8 Cores, 1.0GHz to 3.0 GHz Intel® Embedded Series Intel® Atom® X7211E 2 Cores, 1.0GHz to 2.9 GHz Intel® Atom® X7213E 2 Cores, 1.7GHz to 2.9 GHz Intel® Atom® X7425E 4 Cores, 1.5GHz to 2.7 GHz		
	Memory	8GB/16GB LPDDR5 4800 Memory down	8GB/16GB LPDDR5 4800 Memory down	8GB/16GB LPDDR5 4800 Memory down
	BIOS	AMI SPI 256Mbit (supports UEFI boot only)	AMI SPI 256Mbit (supports UEFI boot only)	AMI SPI 256Mbit (supports UEFI boot only)
	Graphics	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics
GRAPHICS	Controller	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics
	Feature	<b>Execution Units:</b> Up to 32 EUs <b>3D API:</b> Open GL 4.6, DirectX12, Vulkan 1.2 (Windows) Mesa 3D, OpenGL 4.6, Vulkan 1.2 (Linux) <b>Precision:</b> FP32, FP16, INT8 <b>Compute:</b> OpenCL 3.0	<b>Execution Units:</b> Up to 32 EUs <b>3D API:</b> Open GL 4.6, DirectX12, Vulkan 1.2 (Windows) Mesa 3D, OpenGL 4.6, Vulkan 1.2 (Linux) <b>Precision:</b> FP32, FP16, INT8 <b>Compute:</b> OpenCL 3.0	<b>Execution Units:</b> Up to 32 EUs <b>3D API:</b> Open GL 4.6, DirectX12, Vulkan 1.2 (Windows) Mesa 3D, OpenGL 4.6, Vulkan 1.2 (Linux) <b>Precision:</b> FP32, FP16, INT8 <b>Compute:</b> OpenCL 3.0
	Display	1 x eDP/LVDS(Default) 1 x HDMI 1.4 1 x USB-C Alt. Mode, one more USB-C(opt.)	1 x eDP/LVDS(Default) 1 x HDMI 1.4 1 x USB-C Alt. Mode, one more USB-C(opt.)	1 x eDP/LVDS(Default) 1 x HDMI 1.4 1 x USB-C Alt. Mode, one more USB-C(opt.)
STORAGE	Internal	1 x M.2 2242/2280 M key (SATA/PCIe) 1 x SATA III	1 x M.2 2242/2280 M key (SATA/PCIe) 1 x SATA III	1 x M.2 2242/2280 M key (SATA/PCIe) 1 x SATA III
	eMMC	eMMC 32GB/64GB (Opt.)	eMMC 32GB/64GB (Opt.)	eMMC 32GB/64GB (Opt.)
EXPANSION	Interface	1 x M.2 2242/2280 M key (PCIex1/SATA) 1 x M.2 2230 E Key (USB2.0/PCIe) 1 x M.2 3042/3052 B key (USB3.0/USB2.0/PCIe)	1 x M.2 2242/2280 M key (PCIex1/SATA) 1 x M.2 2230 E Key (USB2.0/PCIe) 1 x M.2 3042/3052 B key (USB3.0/USB2.0/PCIe)	1 x M.2 2242/2280 M key (PCIex1/SATA) 1 x M.2 2230 E Key (USB2.0/PCIe) 1 x M.2 3042/3052 B key (USB3.0/USB2.0/PCIe)
AUDIO	Audio Codec	ALC888S	ALC888S	ALC888S
ETHERNET	Controller	2 x Intel Ethernet controller i226 2.5GbE (support TSN) 1 x Intel Ethernet controller i210 GbE	2 x Intel Ethernet controller i226 2.5GbE (support TSN) 1 x Intel Ethernet controller i210 GbE	2 x Intel Ethernet controller i226 2.5GbE (support TSN) 1 x Intel Ethernet controller i210 GbE
FRONT I/O	Serial	3 x RS232/422/485 DB9 connector	3 x RS232/422/485 DB9 connector	3 x RS232/422/485 DB9 connector
INTERNAL I/O	Serial	2 x RS232	2 x RS232	2 x RS232
	Display	1 x 40 pin LVDS/eDP (Default LVDS)	1 x 40 pin LVDS/eDP (Default LVDS)	1 x 40 pin LVDS/eDP (Default LVDS)
	SATA	1 x SATA 3.0 1 x 5V SATA Power (support SATA HDD LED via front panel)	1 x SATA 3.0 1 x 5V SATA Power (support SATA HDD LED via front panel)	1 x SATA 3.0 1 x 5V SATA Power (support SATA HDD LED via front panel)
	Front Panel	1 x front panel	1 x front panel	1 x front panel
	SMBus	1 x SMBus	1 x SMBus	1 x SMBus
REAR I/O	Ethernet	2 x 2.5GbE RJ45 1 x GbE RJ45	2 x 2.5GbE RJ45 1 x GbE RJ45	2 x 2.5GbE RJ45 1 x GbE RJ45
	Serial	1 x COM/DIO port	1 x COM/DIO port	1 x COM/DIO port
	USB	3 x USB 3.2 type A 1 x USB-C 3.2	3 x USB 3.2 type A 1 x USB-C 3.2	3 x USB 3.2 type A 1 x USB-C 3.2
	Display	1 x HDMI	1 x HDMI	1 x HDMI
	Audio	1 x 3.5mm Line out/Mic In	1 x 3.5mm Line out/Mic In	1 x 3.5mm Line out/Mic In
	Storage	1 x MicroSD	1 x MicroSD	1 x MicroSD

## SPECIFICATION

Model Name		KIT070P-ADN	KIT101P-ADN	KIT121P-ADN
<b>WATCHDOG TIMER</b>	<b>Output &amp; Interval</b>	System Reset, Programmable via Software from 1 to 255 Seconds	System Reset, Programmable via Software from 1 to 255 Seconds	System Reset, Programmable via Software from 1 to 255 Seconds
<b>SECURITY</b>	<b>TPM</b>	TPM 2.0 (Available Upon Request)	TPM 2.0 (Available Upon Request)	TPM 2.0 (Available Upon Request)
<b>POWER</b>	<b>Type</b>	Wide Range 9~36VDC	Wide Range 9~36VDC	Wide Range 9~36VDC
	<b>Connector</b>	DC Jack (or vertical type 4pin connector)	DC Jack (or vertical type 4pin connector)	DC Jack (or vertical type 4pin connector)
	<b>RTC Battery</b>	CR2032 Coin Cell	CR2032 Coin Cell	CR2032 Coin Cell
<b>OS SUPPORT</b>	<b>Microsoft</b>	Windows 11 IoT Enterprise	Windows 11 IoT Enterprise	Windows 11 IoT Enterprise
	<b>Linux</b>	Ubuntu 22.04	Ubuntu 22.04	Ubuntu 22.04
<b>MECHANISM</b>	<b>Dimension (W x H x D)</b>	203 x 118 x TBD	279.1 x 172.95 x TBD	312.9 x 226.25 x TBD
	<b>Weight</b>	TBD	TBD	TBD
<b>CERTIFICATION</b>	<b>Certification</b>	CE / FCC Class A / RoHS	CE / FCC Class A / RoHS	CE / FCC Class A / RoHS

## ORDERING INFORMATION

Model Name	Part Number	Display Type	Touch Type	Processor	Memory	Power
KIT070P-ADN	750-KIT0701-000G	7" TFT WVGA Open frame	Projected Capacitive Touch	Intel® Atom® x7211E	8GB	DC Input 9-36V DC jack
KIT070P-ADN	750-KIT0701-100G	7" TFT WVGA Open frame		Intel® Atom® x7425E	16GB	
KIT101P-ADN	750-KIT1011-000G	10.1" TFT WXGA Open frame		Intel® Atom® x7211E	8GB	
KIT101P-ADN	750-KIT1011-100G	10.1" TFT WXGA Open frame		Intel® Atom® x7425E	16GB	
KIT121P-ADN	750-KIT1211-000G	12.1" TFT XGA Open frame		Intel® Atom® x7211E	8GB	
KIT121P-ADN	750-KIT1211-100G	12.1" TFT XGA Open frame		Intel® Atom® x7425E	16GB	

## PACKING LIST

• 1 x Single Box
• 1 x 2-pin Terminal Block Connector
• 2 x M2 Screw
• 1 x Terminal block for RS485